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A

Atkinson, W. G. — Esq. Post Office Box 89, Newburgh, New York. page 1. 34.

Allen, R. H. — Esq. Campbell Mess. R. H. Allen & Co. Box 376, Post Office, New York. page 37. 55. 63. 132. 164. (Prof.)

Anable, Miss —, South East Corner of Broad & Pine Streets, Philadelphia, page. 76.

Averell, Genl. Wm. W. Averell, Campbell Messrs. Grant & Sons, No. 33 Wall St. New York City. page 261.

Brewer, Miss Fanny — , Northampton, Massachusetts. page 22. 65.

Barber, Wm. — Esq. No. 321 Geary Street, San Francisco, Cal. p. 233.

Bowindt, Marshall — Esq. Sydney, Cape Breton, Nova Scotia, p. 23[illegible]

Bowles, Messrs Saml. — & Geo. Publishers of the Springfield Republican, Springfield, Massachusetts. page 242.

Bozzler, For Mr. — Letter Carrier for Fifth & Walnut Sts. at the Post Office, Philadelphia, Pennsylvania, page 244.

Clarke, J. L. — Esq. Secretary of the Board of State Charities, State House, Boston, Massachusetts. page 16.

Clarke, Rev. James Freeman —, Jamaica Plain, near Boston, Massachusetts. page 140.

Cole, Eckley B. — Esq. Drifton, Jeddo Post Office, Luzerne County, Pennsylvania. page 179.

B
C

Delano, Warren — Esq. No. 55 Broadway, New York City. page 2. 14. 27. 36. 9. p. 121. 129. 133. 141. 143. 148. 149. 176. 180. 241.
(Box 1078 P.O.)

Delano, F. H. — Esq., Post Office Box 1078, No. 55 Broadway, New York City. page 163. 168. 172. 181.

Edwards, A——, Esq. Box No. 1. Post Office, Montgomery, Alabama, p. 12. 26. p. 46. 61. 78. 81. 82. 83. 92. (Report on Black Land) 96. 107. 120. 135. 136 p. 232.

Engineering and Mining Journal, The, No. 37 Park Row, New York City. page 267.

D
E

Faucon, Felix Esq., Fifth Avenue Hotel, New York City. page 161. 169. 253.
(R. Clifton Springs, New York) # 280.
Franklin Institute, For the Journal of the — page 225.

Gordon, C. C. — Esq., Architectural Iron Works, East 14th St., near Ave. B, New York City, page 11. 13. 15. 18. 49. 50. 54. 75. 162. 177. 188. 207. 224. 257. 259. 260. 264. 265. 266. 275. 276. 277. 278.

Greene, Thomas F. — Esq. Care of Messrs. Ralston & Matthews, No. 133 Walnut Street, Philadelphia. page 77.

F
G

Care of Henry Howe Esq. Mason St. Cam Mass

Howe, Edward R. — Esq., Pomeroy, Meigs County, Ohio. page 32, 90.

Haldeman, Prof. S. S. —, Columbia, Lancaster County, Pennsylvania. page 187.

Howe, Edward R. — Esq. Care of Messrs. B. Adolphe Law & Co., San Francisco, California. page 234. Care of Messrs. Barstow, Stetson & Houghton, No. 408 California Street, San Francisco, California. p. 281.

Henry, Prof. Joseph —, Secretary of the Smithsonian Institution, Washington, D. C. page 283.

Ingersoll, Charles — Esq. No. 512 Walnut Street, Philadelphia, page 62.

Jenks, P. W. — Esq., Punxsutawney, Jefferson County, Pennsylvania. page 67.

II
J

Lyman, Judge S. F. —, Northampton, Massachusetts. page 3. 79. 144. 174. 285. p. 288.

Lamborn, R. H. — Esq. No. 420 Walnut Street, Philadelphia. page 4.

Lyman, Miss Mary —, Care of Judge Lyman, Northampton, Massachusetts, page 7. 47. 68. 88. 130. 151. 156. 239. 262.

Lyman, Mrs. S. F. —, Northampton, Massachusetts. page 20. 52. 94. 134. 137. 170. p. 222. 246. 249.

Lesley, Prof. J. P. —, No. 104 South Fifth Street, Philadelphia, Penna. p. 28. 37. p. (Reporter Bufwell) 40. 173.

Lyman, Miss C. D. —, No. 226 South Broad Street, Philadelphia, Penna. page 30.

Lesquereux, Leo — Esq., Columbus, Ohio. page 157. 167.

Lesley, Mrs. Susan I. —, Care of Mrs. Mary Cunningham, Milton Hill, near Boston, Massachusetts. page 159. 165. 185.

Lyman, James F. — Esq. ~~Care~~ Mutual Benefit Life Insurance Company, Newark, New Jersey, page 255. 256.

Lyman, Benjamin — Esq., Care of Messrs. Lymans, Clare & Co., Montreal, Canada. page. 279.

K

L

MacGreen, D. N. — Esq., Sydney, Cape Breton, Nova Scotia. page 10. 58.
Matthews, Charles, W. — Esq., No. 133 Walnut Street, Philadelphia, Pennsylvania. page 84.
Miller, L. Edward — Esq., Lane of Mr. Field, ~~Cor.~~ Front Street, Corner of Walnut, Philadelphia; p. 293.

M
N

Ogden, C. H. — Esq. Care of Warren Delano Esq., No. 55 Broadway, New York City. page 64. (P.O. Box 1078) 155.

Plummer, Mrs. M. W. —, Monrovia Depot, Baltimore & Ohio R.R., Maryland, page 19.

Pavel, Robert Hare — Esq. No. 104 Walnut Street, Philadelphia p. 70.

Postmaster, Lotte — at Montgomery, Alabama. page 139.

Patents, Lotte Commissioner of —, Washington, District of Columbia. p. 189, 231.

O
P

Raymond, R. W. — Esq., Editor of the American Journal of Mining, Box 5969, New York City. page 17.

Rothwell, R. P. — Esq., Mining Engineer, Wilkesbarre, Pennsylvania. page 178.

Q
R

Sanborn, F. B. — Esq. Office of the Springfield Republican, Springfield, Massachusetts. page 5. 38. 86. 146. 153. 175. 237. 245. 292.

Thoulet, ~~Atty~~ Julian — Esq., Care of R. P. Rothwell Esq., Wilkesbarre, Luzerne County, Pennsylvania, page 184.

Thornton, His Excy. Edward Thornton, British Ambassador, &c. &c., Washington, D. C. page 284. 287.

S
T

United States Rail Road and Mining Register, Philadelphia. p. 290.

Whitman, Wm. E. — Esq., No. 133 South Fifth Street, Philadelphia Pennª page 29.

Witte Esq. (& F. Hughes Esq.) 209 South Sixth Street, Philadelphia. page (Report on Potomac Furnace Iron Lands) 108. (Bill) 128.

White, C. L. — Esq. Superintendent of the New Boston Colliery, Mahanoy City, Schuylkill Co., Pennª page 150.

Whom it may concern, To — . page 158.

Wood, Richard D. — Esq., No. 4[illegible] Chestnut Street, Philadelphia, Pennsylvania. page 247.

V
W

Messrs. ~~Mathematical Instrument~~ Makers
Young, Wm. J. & Co., ~~No. 11~~ Seventh Shell, Philadelphia, Pa. (Comp. graduation) 58.88.

X
Y
Z

35 South Fifth Street Philadelphia, July [illegible]

W. G. M'Pherson Esq.
Newburgh, N. Y.

Dear Sir:

Your favor of day before yesterday is at hand and its proposals have been noted with care. They strike me favorably in many points; for I am aware that there is an immense deal of rich mineral lands in the South, and this seems to be the time for all offers for speculators to buy them. But your idea seems to be that I should report upon lands offered for sale by you, or perhaps aid in picking out good tracts to bring into the market, and do it in return for a share of your profits and commissions or a percentage on the sales. I have hitherto always avoided reporting on tracts for a share of the sales or profits, thinking that such an arrangement might unfairly prejudice the reports; but perhaps there could be no harm in it if it were understood by the buyers that the general nature of the report or opinion was purely, and could then judge for themselves by my character and reputation how far the reports might be biased. There is a vast number of tracts too in the South where no shade of exaggeration would be needed for a very favorable report, and these might be chosen rather than others. I send you herewith a couple of photographs of my maps which go with reports not as yet published, and a report of mine that was printed, but off which I have no copy of late to send. This will give you an idea of what I aim at in my reports and maps. Since I have made better ones since, that I cannot send, namely, [illegible] in editing all the topographical, geological and [illegible] lands. I have even thought it would be worth while to give more [illegible] of the water power and [illegible] timber based upon actual measurement, [illegible] years. Yours [illegible] Maj. Smith Newman.

[illegible]

[illegible] Esq.

[illegible]

Dear Sir,

Your letter of [illegible] yesterday is delivered which [illegible] have been verbally made [illegible]. They [illegible] our business [illegible] [illegible] you have [illegible] that there is an immediate [illegible] [illegible] [illegible]

135 South 3rd St. [illegible] Street, Philadelphia, 7th April, 1869.

William Delano Esq.,

No. 55 Broadway, N. York.

My dear Sir:

Mr. G. G. Stiness of Pawtucket, R.I. has written to me [illegible] some business overtures that may make it desirable for me to have some absence from [illegible]. If you [illegible] being of [illegible], I would like to see you about it [illegible] this city if you should come before [illegible] you explained to me when you were here. He seems to be [illegible] for the sale of real estate in the West and [illegible]

I remain, as ever,

Very truly yours.

Benj. Smith [illegible]

Will [illegible] to trouble to write, as there seems to be no hurry. [illegible] enclosed

[illegible] Street, [illegible] Office, [illegible]

[illegible]:

The [illegible] of day before yesterday came duly to hand, and I [illegible] that you, at the same time, may need for its [illegible] of the check for the hundred dollars.

The children were here yesterday and seemed in better health and spirits than when he was here a fortnight ago. He is to come again next week. He said the family at home were well. Leah's letter left Boston on Monday.

To my daughter I have heard nothing yet from my letter to her mother; but her mother's other business projects have taken up the present time, so that I can hardly help hoping that something good will come of some of them. One or two of them seem especially promising, and I might, seemingly not unlikely, become a handsome [illegible] to the head of them all.

I shall send you written a few days a copy of some [illegible] of the American Journal of Science. A translation from the German that I made a month or more ago is commingled in it in three or four pages. The first part was in last Saturday's paper, and the second will likely be in tomorrow's.

Hearing that your visit to Boston has been an encouraging one, and that [illegible] will now be fully restored to health, and hoping that you are all well,

I remain [illegible] affectionately [illegible] Smith Lyman

1350 Green Fifth Street, Philadelphia, [illegible] 1887.

R. V. Lincoln Esq.,

No. 420 Walnut Street,
Philadelphia.

Dear Sir:

Mr. Koenig says that he is not able at present to entertain such a proposal as you spoke of to me at some interview. He says however that he is now [illegible] in Heidelberg and he thinks, would [illegible] [illegible] he is not willing [illegible] [illegible] [illegible]

155 South Fifth Street, Philadelphia, [illegible] 1859.

My dear Judson:

I send you this morning a copy of [illegible] of the Chinese Convention, and two [illegible] of the Indian [illegible] which [illegible] I [illegible] yesterday the pleasure of [illegible]. I [illegible] you [illegible] means on the [illegible] translating a week ago and [illegible] them and [illegible] with you; but am well aware [illegible] efforts in Pekin have been honest and [illegible] most. Still, I [illegible] expectations [illegible] correctness made by the [illegible] have restored the [illegible] [illegible] [illegible]

[The two lines in pen, the beginning and ending of the letter]

[illegible] South Fifth Street, Philadelphia, [illegible] April

Dear [illegible]

I was glad to learn by your favor of last Sunday that [illegible] visit, though [illegible] satisfactory result, but sorry that so much patience [illegible] needed in waiting for a complete cure. I am glad you had such a pleasant visit from Kate Fiske. I am sorry [illegible] have not yet worked up more enthusiasm in the noble work of [illegible] medical literature, especially in the scientific, mathematical [illegible] list. — ~~I have written~~ two parts of my translation from Arabic in the Journal, delivering the other day; the third will probably be finished next day, I hope, and finish it up. As you may feel some interest in the original I send you herewith a poor copy of the two [illegible], which you can perhaps decipher with the help of the translation. I am quite aware of the imperfections of the translation but do not take the changes made in it by the editor and printer and have therefore restored, in pencil, in almost every case the reading of the manuscript. The translation has the merit at least of being pretty literal. — The weather here has been very backward and especially very cold and chilly for a week or two past, but we have had less snow than places farther north, and had none at all [illegible] day when it snowed at Washington and all around us. Indeed we have had very little of it all winter and none at all for a long time. [illegible] According to the calendar the trailing arbutus should be in blossom here by this time, and I ~~[illegible]~~ thought of going out to the woods last Sunday to look for it, but it was so cold that I concluded to stay at home. Richmond was captured on the second of April, 1865, and on that day I found the trailing arbutus in blossom ~~[illegible]~~ on the Wissahickon; and the first spring I was there I expected to be still in blossom there. But I fancy you hardly have really spring yet at Northampton at any rate. — Mr. and Mrs. [illegible] went to Washington last Monday to attend the meeting of the National Academy of Science (the Northampton and Washington Scientific Associations). They were met at the railroad station in Washington by a messenger who read off the names of the arriving members with the houses to which they were assigned as guests. The days were great and the evenings the occasion of [illegible] social [illegible]

[illegible] pleasantly situated [illegible] a comfortable room and [illegible] fire all [illegible] them. Capt. Frazer has lately resigned his membership in the [illegible], and [illegible] in such cases [illegible] an honorary member [illegible] all the privileges and some of the [illegible] members. [illegible] is in fact a premium [illegible] in that [illegible] Dr. Leidy, and Dr. Leidy [illegible] both [illegible] for meeting. Dr. [illegible] is talked of for superintendent [illegible] and would [illegible] to get the place, and [illegible] likely as his wife was taken [illegible] the day of Rachel's last birthday, as [illegible] a year ago. Mr. Lilly went to his sister's at Newcastle, Delaware, last Friday to stay there that evening and took his sister and Mary with him. His wife and Maggie went over to his sister's, and [illegible] are there now. They all left the house in [illegible] on Friday, having hastily removed the furniture [illegible] from Rhiannon they had there the day before. They found Rhiannon [illegible] to stand their host and hostess that day [illegible] and returned at a little sooner than they had expected to. Mr. and Mrs. Lilly will be here again tomorrow [illegible]. Delano was [illegible] yesterday afternoon [illegible], and said that Rhiannon and Phil went up to Northampton the day before and that they were [illegible] at the house. He seemed in good spirits, but had no [illegible] to talk with him on anything but business, he was so [illegible] with that throughout his visit. He is [illegible] (for lasting his [illegible] and [illegible] a [illegible] over [illegible]) [illegible] manufacturing establishments in Philadelphia, a car building, iron founding, machinist establishment, that has been getting in [illegible] a bad way apparently through the inefficiency of the [illegible], a Philadelphian; and Mr. Delano and other [illegible] are trying to straighten things up again. The [illegible] office [illegible] is [illegible] of the Company; and Mr. Delano proposes [illegible] secretary if [illegible] can get the [illegible] and [illegible] their place, and they have promised to resign. Yesterday there was a [illegible] meeting over there, and I was waiting outside all the [illegible] Delano's request, as he hoped to get things fixed in a [illegible]. At the time, however, he came to me and said that he would not be able to get me made secretary for [illegible] but that he had [illegible] elected [illegible] already having put [illegible] against the [illegible] for the purpose. He was brought into the [illegible] right away and a director's meeting followed it, and I found my self engaged in business before I knew it. [illegible] Mr. Milly given his [illegible] matters I could not help [illegible]

[illegible] the peculiar manner in which [illegible]
[illegible] with which they were considering
[illegible] the different members towards each
other in spite of a [illegible] in some cases. Mr. [illegible]
[illegible] here a few weeks before
[illegible] before us. The idea is to give me
[illegible] to begin with and [illegible] afterwards, [illegible]
[illegible] without a one as I can go to [illegible]
[illegible] is so much [illegible] in his
[illegible] attention to the services, as
I understand, [illegible] for a few months after that. There are several
[illegible] and of [illegible] matters about the plan and [illegible]
[illegible] drawbacks that are not perhaps very
[illegible] mainly. The two very to begin with, [illegible]
[illegible] we live pretty comfortably and it
[illegible] and [illegible] that the work is not in
precisely the same line as [illegible] the work I have had to do, more
[illegible] and more or less with [illegible]
[illegible] I have no familiarity at all. But I
should not be [illegible] a little training in this line of business,
even if I should not [illegible] in it, and it will be
[illegible] within two or four months, it is likely, and I shall go in [illegible]
[illegible] I shall come with [illegible] experiment for that
[illegible] office, but I will gain a little knowledge of business, at any rate
[illegible] It is still doubtful, however, whether
the [illegible] will be [illegible] active business or be closed up
[illegible] It will be agreeable to have a fixed
salary and not, too, have instead of having [illegible] come out of the
[illegible] place in the country. A small salary we would suit me much
better than a large business in such a place as Pottsville, for example, or
a large salary at the [illegible] nothing of the fact that the place here would
[illegible] something [illegible] my professorship [illegible]. This manufacturing
business has been very successful here, and in any case the [illegible]
it would [illegible] me would be of great service in any future [illegible]
[illegible] regions or [illegible].

I [illegible] a club at [illegible]. Wilkes was [illegible] thinking [illegible]
and [illegible] interest in it and pretty much "polished off" the same [illegible]
[illegible] I [illegible] very much [illegible]

[illegible] 1858 [illegible] April 18th

[illegible] Esq.
Sydney, C.B.

My dear Sir

I have heard nothing from you since Sarah wrote [illegible] I suppose that Brentley forced the Commissioner to get the [illegible] from you had [illegible] believe. Still, I have the pleasure to [illegible] that my letter [illegible] miscarried, and it has [illegible] to [illegible] you this line again to say that the terms [illegible] would be satisfactory to me, and [illegible] the business [illegible] and the office settled up [illegible] convenient.

[illegible] the [illegible] of the [illegible] and [illegible] the office [illegible] for [illegible] feeling that [illegible] and [illegible] the Bretton. Here the spring is backward [illegible] and [illegible] and [illegible] and [illegible] and [illegible] the [illegible] the [illegible] in [illegible] and [illegible] time be in [illegible] in the country [illegible] Sydney. I only [illegible] you, [illegible] your shape, [illegible] and gait, [illegible] appear in [illegible] windows, [illegible] you, and [illegible] beyond the [illegible] weeks of spring and early summer weather here instead of in Sydney.

Hoping that you are all well, and that you will give my best regards to your family, I remain ever, very affectionately yours. Raphael [illegible]

No. 1[illegible] Broad, Philadelphia, [illegible] April [illegible]

Lorenzo Delano Esq.
No. 55 Barclay,
New York.

My dear Sir:

My Alabama correspondent has written me that he would be glad to have me go and work at his land as soon as I like, and that he has not written a line on account of reliance from me. As our meeting of last Wednesday was so near I thought it would be best to wait one week at any rate, and have written him accordingly. This survey is in itself of little importance, but would be worth my while if it should not interfere with something better.

Yesterday and today I have been over at the Cartwrights with Mr. Hunt, Mr. Mr. Barber and Mr. Stevenson. Mr. Hunt is a very good hand at such work, and it is very well that he was sent for it. It will probably be done before holiday week, though there has been much more to plan than when the present was last taken.

Cordially yours,
Benj. Smith Lyman.

135 Pa. Ave. Philadelphia, [illegible]

3. C. Parsons Esq.

Architectural Iron Works New York.

My dear Sir:

The inventory was successfully [illegible] day, and the hands went home [illegible] in the after[illegible] the said [illegible] & copy it off so as to have it in [illegible] hand [illegible] on the day, as I thought you [illegible] particularly desire it before coming on on Wednesday. I [illegible] the way through as regards the materials, tools and st[illegible] machines in and [illegible]; but the unfinished or half [illegible] building with its machinery and lumber was not [illegible] as the Hand thought would keep him over until Monday [illegible] cause great inconvenience; and I thought I could [illegible] it satisfactorily [illegible] afterwards. It is differe[illegible] from the other things taken in being for the most part fixed and being subject to wear and tear from use.

Very respectfully yours.

Benj: Smith Lyman.

[illegible]

[illegible]

[illegible]

[illegible] Philadelphia, 25 April [illegible]

R. W. Raymond Esq.

Editor Mining Journal.

My dear Sir:

Some extra copies of the Journal have just come to hand again today, by mistake; and as I do not wish for extra copies and charges, please stop the stream by drawing on me. If you wish for these copies to fall, if you wish, I will either send them back to you or put them in the hands of your agent here.

I am sorry you to see the so gross intentional errors in the manuscript of the last four pages of that translation; better manuscripts were a little rough: "Bonsich" for "Bonsack", and "Hay, all children in his pleasure hall" instead of "Tower. All children in his pleasure hall"; both of them in the songs.

Another mistake that I have noticed in the list of the Superintendents and in the "Tin, and copper" part, which I have altered "Northwood Beach" instead of "Ducks"; it is mentioned in the "Tribune", from which we are to [illegible] the names. Hence this is my time.

Very truly yours.

Benj. Smith Lyman.

5th South Fifth Street, Philadelphia, 26 April 84.

J. P. Cornelius,

Architectural Iron Works,
New York.

My dear Sir:

Your favor of day before yesterday is at hand as you may see I have called on Mr. Ley, and learn from him that he sent you a copy of the document you wished for on the evening of last F. [illegible] evening. It probably came to hand after you wrote. If it should have miscarried it will be almost too late after the works, you should send you another copy before you write definitely. If you will let me know, I can have a copy for you on your arrival here.

I wrote you yesterday of the satisfactory conclusion of the matter, and hope that Mr. Hunt will have a finished copy of the plans for you before Wednesday. You certainly should have a tender of the value of the unfinished building got at either by a complete measurement of its parts or otherwise; but perhaps you have such an estimate already. I cannot conveniently make the needful measurements today nor tomorrow, and perhaps there is less reason for haste about it than about the roof, at any rate for a few days. The stone walls of the building ought to be sheltered from the rains by a good roof at the top at a trifling expense; and that ought to be attended to forthwith, but Mr. Hunter, who spoke of it, said he had no funds for the purpose.

Very truly yours.
Benj. Smith Lyman

[illegible]

[illegible] Hoffman

[illegible]

[illegible]

[illegible]

[illegible] favor of the [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] and [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [

[illegible] 28th street, Philadelphia, [illegible]

Dear Mother:

Your favor of the twenty second came duly to hand. I am glad that Father's eyes keep on growing better, and hope the Chronicle will be no more. — There is no need for your feeling either alarmed or pained at having "a poor in the family," if you mean me. It is one thing to write poetry and another to translate it into verse; although Mr. [illegible] translated for us most beautiful verse the Poems of Heine, since in his preface he says that "a translator who cannot equal his original is incapable of appreciating its beauties." He says too that "the making of poetry is as little any other handicraft may be learned by industry," and [illegible] Shannon too of Maine, the Indian poet. As far as matters stand I have no doubt it is perfectly true; and practically I am wholly destitute of every spark of poetry. My composition in prose or writing verses is an extremely good one for learning the use of words. Mr. Ellis used to make me do something like that, and might perhaps well enough have taught me how to make decent verses if I had in College I practised a little at writing Latin verses, and three years and more ago I tried my hand a little at [illegible] verses in translating from the German, but have not done much of that kind since. — Educated miners do take a good deal of pride in their business, and in Germany even considerable over the pressure it is not so much so in this country yet. As for mere work the German miners have to work pretty well for low [illegible] the miners are comfortably paid and do not work as many hours in a day, they are paid so well that they feel able to do a good deal of the time, using no very expensive tools, or [illegible] cheap. They always work under cover and even in winter work in [illegible] warm places in darkness, [illegible] As for the danger it comes in great part from the careless carelessness of miners about blasting and the like, or carelessness of [illegible] and such matters. The fire in the Nevada [illegible] you speak did not come from "fire damp," for that is found in Coal mines and not in silver mines; and for [illegible] "black damp" or gas such as gives the foul smell to [illegible] is also explosive and might be found in silver mines as well as in Coal mines; but it came more likely from

carelessness about gunpowder or nitroglycerine or fire damp explosions. These mines there are chock full of wood put in to prop up the rock and prevent the two walls of the vein from closing together, and it is the burning of this great quantity of wood that has inside the fire but so long and so severely raging. In coal mines the coal sometimes takes fire, but of course there is no fire in a silver mine. – I was interested in noticing in the paper that one of Sam's sons had got a place at the Naval School; but is not the prospect of advancement in the navy better since the war, as it used to be in old times before the war when men grew gray as lieutenants. – I received a letter a few days ago from Edward Hale saying that he had two weeks before been appointed superintendent of the Rolling Mill at Pomeroy. His salary was not fixed yet, as the company did not feel able to pay much at first. He thinks he could make better terms in a month or two than he could then. So Edward seems to be fixed, and the next thing to hear of will be his marriage, for I fancy if he succeeds as a little prosperity generally makes a lady do that they can get along very well in a country where even if his salary be but moderate at the outset. The finish rolling mill seems a rather troublesome set to manage, but think he shall get along in spite of the incessant disagreeable. Edward and Will have acted as superintendents before and still think we will succeed very well; and he ought to know better than, after seeing Edward daily for three months. – My Salem correspondent wrote the other day that he was satisfied with the terms and immediately came on as soon as closed, and not written some one else out of advance from home. I have thought it worth while to visit Mr. Delano's brother's family day after tomorrow, and shall very soon after that start for the South unless induced to stay here by something better. Very likely I can go South without interfering with anything here. If I do go South there is some prospect of more work in the same direction, which may be looked on as a set off to the prospect held out of higher salary at West Philadelphia if I should hang on there a while. Your warning in regard to such prospects was well timed. Two or three other business projects are talked of, but do not look very promising. Therefore after the last day of last week I was occupied in doing the taking upon inventory at the West Philadelphia place.

Give my love to all. Your affectionate son Benjamin Lyman

1854 Walnut Street Philadelphia 7th mo 17th

My dear Fanny:

Your most interesting and welcome favor of the 3rd ult. was not
received until Saturday. I had been looking for it
some days before delivered, since receiving Hattie's
letter last January she believed a direct one, as I gave her, was
[illegible] and been answered. It is comforting however to think that neither
[illegible] in not having your letter nor in believing that message was owing
to the non-paying [illegible] of your [illegible] miserable sex in such matters.
Now for the offer. Hattie's going to Springfield to bid good bye to her sister
Kate. Where is Kate going then? To Europe, with all the rest? – I am [illegible]
in finding much pleasure in your French studies. I should think you would be right glad to take advantage of your [illegible]
[illegible] the last few weeks there was little [illegible]
regularly, & the "[illegible]" of Design every morning and [illegible]
[illegible] the [illegible] been irregularly & the [illegible]
[illegible] perseverance [illegible] and with less profit. She is going to
[illegible] Fancy, she is accompanied by [illegible]
[illegible] dinner. She could be the pencil. [illegible]
[illegible] would be encouraged to write the [illegible]
[illegible] happy [illegible] on the piano, and [illegible]
[illegible] – What [illegible] your experience with Plan-
chette seems to confirm my views about it. Mr. Winsor was playing
one day [illegible] passages, playing with planchette in
a [illegible] room by [illegible] evening. After [illegible] taking the writing a good
[illegible] the subject was remarked that they should [illegible]
[illegible] the pencil in all its irregular movements was
[illegible] the paper. Pretty soon after that it did move off the paper.
– Mr. Lindley's book spoke very interesting indeed, although not
perfectly satisfactory in all points (so what is). The Arbiter part
[illegible] I do not believe that anybody not already
acquainted with the subject would get much clear from it at first
[illegible] reading it over a second time a clearer
idea and a more [illegible] one would be got. But who can read
a [illegible] book a second time in these days? It is too much for
[illegible] and to unknown a subject as Arbiter might be
[illegible] and simple a way as to give a clear
idea at the first reading, if not a full knowledge of the whole [illegible]

the Northern Lights you spoke of were the subject of quite a power-
ful lecture at the American Philosophical Society. I go there from
time to time, that I may well understand now that such lights were caused
by ice or fog in the air, vapor even finer than [illegible]
the lights I saw very well at the best time a little after eight
I was going up Ridge Road and crossing Broad [illegible]
Mrs. Palmer; the first time since her short visit to the [illegible]
seemed to be very well, and was very sorry that [illegible]
you and her sisters in New York, or at her dear home [illegible]
as usual in the dining room, up stairs, and the weight was
[illegible] lost. He had quite lately begun to improve a good deal, and
to understand very well what was said, and tried to talk to
[illegible] a gentleman there whom he wished to talk with [illegible]
[illegible] left arm is obedient to his will and
[illegible] hands and plays with his boys with his left hand. His
[illegible] understanding, but some words are [illegible]
[illegible] and make his hearing; and he writes about [illegible]
[illegible] very indeed seems to be the [illegible] mind [illegible]
[illegible] his senses [illegible] the use of tobacco; and [illegible]
[illegible] sometimes caused by tobacco. Mr. Forger [illegible]
[illegible] very cordially he says. — Mr. Forger [illegible]
[illegible] the same that was my assistant over three years ago, [illegible]
daily expected home from Keitag if he has not already arrived.
Last Sunday evening his mother was said to be already quite [illegible]
about them as his absence for about me I was sitting down [illegible]
[illegible] a Commander and there was no quorum for [illegible]
day before last Aunt Susan took tea with the Forgers and that
the cause of my seeing Mrs. and Mr. Forger for a moment [illegible]
our day party in the library broke up. I had never seen them [illegible]
before, and that was in the dusk one summer evening [illegible]
[illegible] when you are there [illegible] the [illegible]
[illegible] Mr. Lesley on a trip to the mountains [illegible]
as soon as he arrived; but Mr. Lesley has just been here [illegible]
wishing to see if I would go in his own place as he has often [illegible]
for himself. If I should go, and it will be decided in a day or [illegible]
it will take me about a month in Alabama to do the
work he says; and that will be better than the Alabama [illegible]
Alabama, however, there was a prospect of other work besides what
[illegible] me down there. This Pennsylvania work would also be [illegible]

[illegible] world, and this [illegible] begin for [illegible]
[illegible] Philadelphia [illegible]
[illegible] Philadelphia [illegible]
[illegible] and [illegible]
De Lano and his fellows [illegible] in the Texas [illegible]
tomorrow, and [illegible] will be decided about that matter. If you
see Hale's paper a number of projects are [illegible]
from me except in Philadelphia, in Texas [illegible]
or in Alabama. Or somewhere else is quite [illegible]
if you should not see me until you write yourself
Mr. Bailey has [illegible] great pleasure to undertake
United States Gazette and Mining Register [illegible]
published just as [illegible] in Valuable [illegible]
will begin in a week or two earlier. It is a [illegible]
in the business world, and [illegible] here, both [illegible]
[illegible], and chiefly [illegible] with [illegible] and [illegible]
Bailey it will no doubt take a high place in the
[illegible] of the commercial and [illegible] world. There will be room in
it [illegible] for [illegible] and it may [illegible]
[illegible] very well
for the [illegible] of [illegible] and [illegible] matters, the
mining [illegible] [illegible] as [illegible]
I had [illegible] [illegible] [illegible] in [illegible]. The
Springfield Republican [illegible] have mentioned [illegible]
in domestic life [illegible] [illegible]. He [illegible]
leaving the [illegible] [illegible]
representative [illegible] [illegible]
[illegible] [illegible] [illegible]
came engaged [illegible] [illegible]. He afterwards [illegible]
within [illegible] days after becoming fifteen years old [illegible]
He, but a few months later [illegible] to Bailey [illegible]
engaged to Julia von Oberfeldt, daughter of [illegible]
[illegible] months after the [illegible] of Philadelphia. On August [illegible]
[illegible] with [illegible] [illegible] preceding [illegible]
was [illegible] off and he finally died the next [illegible]
his public [illegible] which [illegible] in all [illegible]
[illegible] [illegible] years after his death
[illegible] of a [illegible] [illegible] [illegible]

[illegible]

[illegible]

[illegible]

135 [illegible] St., [illegible]

A. Edwards Esq.

[illegible] Springs, Ala.

Dear Sir:

I am very sorry to disappoint you after all, but I find that I cannot make your survey just now. Perhaps, I shall perhaps in a month or so be free again, so as to be able to do it, if you should still desire it.

Hoping that the disappointment will prove of the gravest serious importance, I remain

Very respectfully yours.

[illegible]

[illegible]

55 Broadway, [illegible]

[illegible]

[illegible] from the Ogden [illegible] a free favorable [illegible], Rome & Watertown Railroad has come [illegible]. [illegible] being able to act [illegible] [illegible].

My [illegible] for the Rome will be [illegible] [illegible] Jefferson County, Pennsylvania [illegible] [illegible] [illegible]

Altoona, Pa.; 30 April, 1869.

Prof. J. P. Lesley,
Phila.

My dear Sir:

Will you be so kind as to find these three books on the shelf in my office and hand them to Mr. Whitman; namely, "Woolen's Engineering"; Taylor's "Report on Weights and Measures" and "Systems of Weights and Measures". They are lying together in [illegible]. They are Philadelphia Library books that Mr. [illegible] sent me, and I took them to his Office this morning [illegible] that up. I meant to have tried again to find them at the last minute. That book "Engineering [illegible]" might be returned along with the others. [illegible] he will not doubt be glad to have you keep it [illegible] you will probably be down and know yet that you have it, so please [illegible] him.

[illegible] started at about 11:50 city time, but we [illegible] it, and after a comfortable [illegible] are spending the night comfortably here.

I made [illegible] purchases at Queen's, so that my exchequer is rather depleted and I fear that I shall [illegible] to draw on you sooner than you expected, unless Mr. Jenks pays me through handsomely.

Very affectionately yours,

Benj. Smith Lyman.

Wilmington, N.C., 30th April, 1887.

Prof. J. P. Kimball, Hanover, N.H.

My dear Sir:

Will you be so kind as to point out some textbook on the subject in your letter, and have at hand & the Dictionary; [illegible] Taylor's Report on Irrigation and Drainage? [illegible] Drainage: May we buy together [illegible] Land are, and what time. Can you offer this morning [illegible] Present address [illegible] Tell both [illegible] [illegible] would be returned along with it [illegible] [illegible] [illegible]

Altoona, Pa.; 30 April, 187[illegible].

Wm. E. Kindleman Esq.

133 South Fifth Street, Philad.

Dear Sir:

Have written Mr. Kelley to get the library books borrowed from you and return them to you. I saw him in office this morning, he found it locked up; and I have tried it again, but forgot it in the hurry of the last minute. I told the book Engineering [illegible] to Mr. Kelley for him to read something in it, and he will return it along with the rest if you like.

I was sorry to be so hurried for the last day or two, but I could not leave another point that with you; but I came away by the noon train, so as not to have to travel all night, and shall carry out the rest here comfortably.

Hoping to see you again before many weeks in Philadelphia, for you fully to recover, and that your health will [illegible] rapidly in the meantime; and thanks for your many [illegible] of the books, I remain, very

Truly yours.

Benj. Smith Lyman.

Address: Punxsutawney, Jefferson County, Penna.

[illegible] Nov: 30th 1847.

Mr. E. Robinson Esq.

133 Nassau Street New York.

Dear Sir

[illegible]

[illegible]

[illegible]

Punxsutawney, Jefferson County, Penn.
2 May. 1889.

Miss C. D. Lyman
226 South Broad Street, Philad.

My dear Miss Lyman:

I send you herewith the receipt for your City and State taxes, which I could not make it convenient to hand to you in person before leaving town. You will see that they are a trifle higher than last year, owing to the fact that the rate of the City tax is $1.50 instead of $1.40. I did nothing about the United States taxes, for want of time, but can attend to them when I get back to the City, whether you should be there then or not. I shall in all likelihood be at home again long before you leave town; but shall certainly be there before the taxes become payable; so that will be all right.

I left Philadelphia Friday noon, as expected when I saw you; slept that night at Altoona; reached Indiana, the end of the railroad, yesterday noon; and found there Mr. Jenks of this place, to whom I had a letter. He had just come from Pittsburg where he had gone to meet his niece, Miss Sallie Somebody, a tall beauty, and she was with him. She had just come on from her home in the eastern part of Illinois to make a visit here. Her home either is or was only eight miles south of Havana where Tom Jones lives. She is young, lively and bright enough, though without the advantages of a collegiate education, and made a sufficiently agreeable travelling companion. After dining at the Indiana we all went in Mr. Jenks's carriage, in the rain, over muddy roads for this place, twenty seven miles to the north. With me had come from the City a young man named Porter, nephew of one of the gentlemen interested in the City company, and just back from three years and a half at Freiberg. He goes merely or mainly to see a little of practical field work. The four filled the carriage and the baggage had brought it from here had to be left behind to come in some other way. I was placed in the back seat with Miss Sallie, and our various small pieces of luggage were stowed away wherever room could be found.

Wilmington, Fairfax County, Va.
2 Mo. 1st 1861.

Wm. C. L. Chapman
Cor. 43rd and Pine Sts. Philada.

My dear Wm. C. Chapman:

I learn you intend to travel for your health and, if so, I would request to accompany you in your lighter family. You will see that I am a stiff for the business of, only that I feel it and yet feel that I ought to. I do not feel any at liberty to leave home, but I am willing to do what I can, if you think it right. If I can be of any use, let me know. I get tired of it only when I think it does no good. I think in all likelihood I shall have some time; but should certainly be glad to have the company of a friend in all cases.

My health is quite indifferent, having been so for some time; but I do not feel any at liberty to leave home. I should be glad to see you here, if you should come on from the West; and I will write a letter to Friends, if you think it right. We have not been visited by any of our ministers since the commencement of the present troubles, and we are in a very critical state. We are very, lately and intimately, tried with the embarrassing of our religious education, and many a sympathizing heart is the sufferer. Little thinking of the time we enjoyed in our Yearly Meeting, in 1859, we little thought that we should be so soon deprived of the privilege of meeting together in the Spirit of our Master, and yet we have cause to be thankful that we have a little left us. We have had our Yearly Meeting. We were necessarily a mournful and a little of a peculiar kind. We have filled the Meeting and the Yearly Meeting House, but the Meeting of Ministers and Elders is some distance from here. We have had with us Friends from Philadelphia, and we have had a very solemn and comfortable time. We have had some accessions to our Meeting, and we have had some few disowned. We have had a very large number of applications for membership, and we have had a very large number of applications for membership, and we have had a very large number of applications for membership.

We have been nearly six hours and a half, and we can not get here until about half past eight, some time after dark. On the way we found that Mr. Jenks was a lawyer and had five students studying with him. The country we passed through was settled with farms most of the way, but a little back from the road the great forests could be seen that covered most of this part of the state. North of this the country is still within a few, and in that wild region our work is to be. Mr. Jenks is today in a quandary as to how we shall find any lodging place or food during a part of the journey. It is rather cold and just now rather damp besides out on the ground. On our way there were many jokes between the girls and Miss Dolly about the relative merits of this region and Illinois, in which she held her own pretty well for a little lady. Mr. Jenks was very agreeable and a wit.

On arriving here we found the family expecting us, or at least a part of us. Mr. Bailey had been expected instead of me, and Mr. Foster not at all. Mrs. Jenks seems to be a very nice woman, perhaps forty, small, comely, and the mother of three or four children, one a son of seventeen or eighteen, and two little girls for whom a couple of handsome hats were brought from Pittsburg and were worn for yesterday by Miss Dolly and herself. There is a good looking young man in the family too who seems to hold a rather authoritative position, and I am inclined to think he is the brother of Mrs. Jenks. Besides these there is a Miss Helen Fornett by, else whose relationship, if any, to the rest I have not yet made out. She is perhaps the handsomest of all, but one of her eyes suffers from either a temporary or permanent eclipse. She seems to be the favorite of all the ladies, too, at the young men at least, and altogether quite a fine, pretty, amiable little woman. Mr. Jenks is a tall, slender, quite obliging but modest Christian. He plays the violin, too. Last evening we had quite a little music. Do you not intend for me? Here are three of the children and Miss Helen are European guests. Mrs. Smith known.

[illegible]

[illegible]

[illegible]

[illegible]

Dunkirk, New York, Jefferson County, N.Y.
2 May, 1869.

W. E. McLennan Esq.
Newburgh, N. York.

Dear Sir:

Your favor of the twenty-ninth is at hand, and I answer it at the earliest opportunity. Your favor of the fourteenth also came to hand. I am somewhat at a loss how to make out as you propose definite terms of agreement between us, from not fully understanding what are precisely your views in relation to it. I am, too, for the present so very much occupied with other matters that I shall only give the subject the proper consideration, and, as you seem to have considered it fully already and to have a clear idea of what you want, or [illegible] I cannot [illegible] your [illegible] [illegible] If it should not prove altogether [illegible] to this, I will be happy to make an alteration, or [illegible] [illegible]

On the other page I send you a few references in return for the list you sent me.

Yours truly

Benj. Smith Lyman.

My address will be here for two or three weeks yet; but letters sent to Lockport, Niagara Co., will at any time be forwarded to me. — B. S. L.

References:

1 Prof. J. [illegible], 1017 South Fifth Street, Philadelphia.
2 Mr. [illegible], [illegible], cor. Pine St. "
3 " James T. Thomas, Chestnut St. above 6th "
4 " Oliver C. Hamilton, Cong., Fifth St. above Spring Garden "
5 " Warren [illegible], No. 55 Broadway, New York & Newburgh, N.Y.
6 " [illegible], [illegible] Gas Light Co., Elizabeth St., New York
7 Messrs. Albert [illegible] & Co., Pine St., New York.
8 Mr. E. H. C. [illegible], [illegible] 35 Burling Slip, N. York.

9 Dr. Elder Hove, No. [illegible] State Street, Boston
10 Mr. J. W. [illegible] " " " " "
11 " J. W. [illegible] " " " " "
12 " Emery " " " " "

13 " T. J. [illegible], Springfield Republican, Springfield, Mass.
14 " [illegible] B. Cope, [illegible], Jeddo Post Office, Luzerne County, Penna
15 Rev. James Hall, Albany, New York.

Pumpselawney, Jefferson County, Penna.;
2 May, 1869.

Warren Delano Esq.
No. 17 Broadway, New York.

My dear Sir:

Just as I was leaving home I got another letter from W. G. Atkinson urging again his proposal of a "Co-operative Land & Mining Agency," as he calls it this time, where I should "have equal profit, and equal profit with himself." I am not altogether taken with the tone of his letters, but he may be all right and it may prove desirable to form some business connection with him. I have, therefore, in my last letter, asked him to draw up an agreement form with; as he had asked me to do, but I am too much occupied just now to consider the matter very carefully, and he seems to have a definite idea in regard to it already. This will give me additional time to find out something about him, if possible; and in the meantime I have given him also a few references in reference to the last he sent me, and have taken the liberty of mentioning your name among them. If he should actually make any inquiries of you please let me know what impression he makes upon you.

I arrived here last night, and this will be my headquarters and address for probably two or three weeks at least; and then I shall move a little farther north. The mail comes here from Indiana, the nearest P.O. point, every Tuesday, Thursday and Saturday. I suppose you will not care to have me be at the next stockholders' meeting of the U. C. & M. Co.; but if you should wish for anything of the kind (any a proxy) you can write me. But you doubtless have no need for that. The roads are just now very bad, and the stage takes a whole day for the trip from here to Indiana.

Very truly yours. Benjamin H. Lyman.

Pumpsaint, Lampeter, Cardiganshire
2 May 1899.

Dear Mr. Evans,

Mr. Prosser, Merthyr.

My dear Sir,

Just as I was leaving home I got an illegible letter from Mr. Williams urging upon his behalf a "Joint Scheme of Land Nationalisation", which calls it the time, "that labour should have equal profit and equal profit with capital". Now, we have to take care that the upper classes, but it seems to be illegible and difficult, perhaps, because it seems to be a matter of illegible. Those, therefore, which have illegible to demand an opportunity from illegible, which had asked one to do, but I see it would require illegible. Illegible very carefully, and I cannot find a definite illegible. Illegible illegible, illegible, illegible,

Pumpkinvine, Jefferson County, Ohio.
2 May, 1869.

Prof. J. P. Lesley,
104 South Fifth Street, Philadelphia.

My dear Sir:

We arrived here safely last evening after nearly six hours and a half of driving over very bad roads. The rain came and should have been very serviceable on this part of the way; and the weather is still so cool that we have lies, thus far, without by an open window. The only mishap was my forgetting to check my valise at Pittsburgh, or rather reclaim it and get it marked again there; so it will not get here until the stage comes on Tuesday. But there is nothing in it that I specially need before that time, I believe. Mr. Jenks and his family prove to be quite agreeable. He seems to be a man of great consequence in these parts, and a prominent lawyer. There are two handsome young ladies in the family; so what more could be desired? One of these came with us from India-ana, just from Illinois, to make a visit here, and Mr. Jenks's uncle had met her at Pittsburg. The weather was raining nearly all day yesterday, and is partly so today, and this afternoon seems to be threatening for tomorrow.

I have not yet fully understood whether the work I am undertaking here is to be done in the first instance, for you or for the other gentlemen. In either case do you or they wish to be kept posted by letter about the progress of the work, or about its results? The mails run but three times a week between here and Indiana; and come here from Indiana Tuesdays, Thursdays, and Saturdays, taking a whole day for the trip each way, and starting from Indiana early in the morning, before the train comes in by which we came. Mr. Jenks is at some loss to devise some way by which we can get food and lodging while in the wilderness west of here.

I am yours ever

Affectionately yours. Benj. Smith Lyman.

Dear Secretary, Wellington Barracks
Aug. 11th 1844.

Brig. Gen. Sebright, 101st Regt. Fort William Calcutta.

My dear Sir:

My recollection has kept pace with your kindness, and I should have sooner acknowledged your very interesting letter. The cross road and shameful mail delay frequently occasions, as this last letter, the loss of many days, and it arrives, as it will do now, long after the time for an answer. It only serves to prove how anxiously I attend to your wishes. It only serves to prove how anxiously I attend to your wishes. It only serves to prove how anxiously I attend to your wishes

Brookville, Jefferson Co., Pa.
2 May, 1864.

Mr. Dear Sanborn:

I have to thank you for sending me the weekly Republican, asked for and twice promised, and daily Gazette. Neither have yet been unfolded and interested me. I am also very much obliged to you for the pamphlet that is one of them.

Perhaps although you have been a schoolmaster in your time you hardly consider the simple dot there given an sufficient indication of the point of the world I am in; but I believe there is no other place of the name anywhere all the world over. You must know then that it is a village on the northern edge of Jefferson County, Pennsylvania, twenty seven miles north of Punxsutawney, the nearest Railroad point, and on the edge almost of a great wilderness. The population is about [illegible] of my work and here I be, [illegible] of tracts of land, [illegible] at a dollar twenty [illegible] within a [illegible] the place [illegible] more [illegible] [illegible] will be [illegible] and water, and [illegible] or three [illegible] I can pay [illegible] as well as [illegible] will be here. [illegible] Pa. [illegible] in Quid Nunc [illegible] Quid Novum, for it was [illegible] village inferior [illegible]. I arrived here last evening in company with a [illegible] man from Philadelphia, named Porter, just [illegible] where [illegible] in the [illegible] field work. We were brought here [illegible] afternoon and evening over very muddy roads by Mr. [illegible], not Captain Jack's [illegible], but an important person [illegible] three hacks, and a [illegible] evening [illegible] with five [illegible] in his office. He returns at Bradford [illegible] his way home from Bradford — Pittsburg, where he had met [illegible] all's Rally [illegible] come from Gettysburg [illegible] weather will [illegible] you ago. He [illegible] work [illegible] will [illegible] certain [illegible] matter — or you might say [illegible]

[illegible] Mr. Jenks but Prior [illegible] [illegible] Mrs. Jenks is [illegible] one [illegible] [illegible] and her little girls [illegible] [illegible] family [illegible] [illegible] [illegible]

The [illegible] in the [illegible] Well.

[illegible] Well is on land [illegible] Co. [illegible] Jefferson County [illegible] [illegible] [illegible]

"15 25 feet wooden pipes.

"30 White Sand Rock.

"35 — — —

"40 — — —

"45 — — —

"50 — — —

"55 — — —

"60 92 Hard Rock. [illegible]

"92 131 Red Rock. [illegible]

131 [illegible] White; not so hard as [illegible]

"150 170 Red Rock. [illegible]

170 [illegible] Hard? [illegible]

[illegible] 235 — — 202 [illegible]

"202 230 Hard R. 210 [illegible]

"230 245 White [illegible]

"245 260 [illegible]

"260 284 Red R. [illegible]

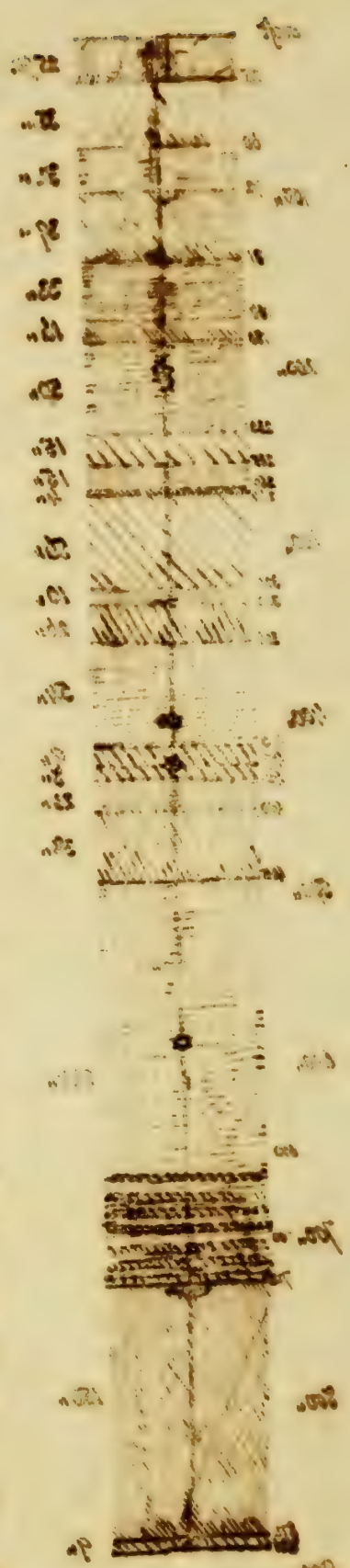
"284 320 Blue Sand Rock.

"320 330 Hard Rock.

"330 355 [illegible] Sand R. [illegible]

"355 410 Hard Rock; — gas 395.

"410 419 Fine Sand Rock; 419 gas & salt.



[illegible] Sand [illegible] [illegible] particles. [illegible]
[illegible] from [illegible] of [illegible] of the [illegible]

'427 450 Slate

'450 485 Shumantia } "by hand drilling & filling a very fine [illegible]
'485 585 Shumantia } flow; kept blue color the [illegible]

'585 650 Hard Slate. 583 Strong gas.

'650 700 Slate and Sand layers alternately.

'700 722 Slate and Sand alternately. [illegible]

'722 872 Slate; very hard. [illegible] Sand; the [illegible] [illegible] and [illegible]
[illegible] sand.

'872 881 Sand Rock."

Writer. "The Boring. Before the boring was begun a large [illegible] was dug down through the sand to the solid rock and around [illegible] pipe was fixed upon the rock; and through this pipe the boring was done. The hand pump was always employed into the [illegible] hole, and there the chippings or boring [illegible] still [illegible] and they much mixed together.

[illegible] Day [illegible] 1869: In the nineteenth day [illegible] 185 [illegible] two [illegible], and eighty [illegible] 3 [illegible] 'Mr. [illegible] at [illegible] [illegible] and noticed it was water and found the water was colored [illegible] the same as the water [illegible] getting out of the well with the hand pump. That was the hard [illegible] manner that is charged to the company at that date. That was the first thing that gave us any idea about oil or in the well."

[illegible] "That was [illegible] confines in the main [illegible] Large [illegible] with the Shumantia oil, [illegible] is said, that [illegible] Knight, a druggist of Titusville, went to the well,

[illegible] in the [illegible]
[illegible], to look in to the [illegible] of [illegible] the [illegible].
[illegible] will have been an [illegible] that the ore found at
[illegible] was the [illegible] of this ore of [illegible] foundry. This
ore is still at the foundry and is sold by [illegible]. Mr. [illegible] has
been employed to prove this by himself from [illegible] and
the [illegible] [illegible]. It is a large [illegible] day [illegible]
[illegible] of [illegible] [illegible] [illegible] [illegible] and [illegible]
[illegible] [illegible] [illegible] [illegible] brought to this
[illegible] [illegible], an agent of a company of [illegible]
[illegible] have made not long ago to me that of the ore
[illegible] found at the well and have [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] the well
[illegible] [illegible], and to have got [illegible] of the chippings
[illegible] [illegible] [illegible]. At the [illegible] [illegible] [illegible]
[illegible] at the well myself and saw [illegible] made in which chip-
pings of specular ore mixed with chippings of carbonate of
iron and other rocks are brought up. An auger made
for boring into rock, soft earth is bored into the rubbish in
the hole around the wooden pipe at the top of the well.
[illegible] and frequently then brings up from the hole made by
the auger a mass of chippings and muddy water
and these are poured into a pail, taken to the creek and

would clean. The boring with this auger is done through a
small trap door in the flooring above the well. It is done by
Mr. Ford (writer in law of Capt. Steele), and another man, both
of whom are said to be strong & honest. The land belongs, the
owner of the land with Capt. Steele seems to be a very lively
honest man. Besides those already mentioned, Messrs. P. W.
Jenkins and Benj. Jenkins and Capt. Steele, all of them gain no
information in the matter, seem to be stupid, nor have all
such other any interest or any chance to get any direct
information in the boring.

Geological. It is clear that it is quite impossible that
any helpful speculations can be found in the rocks
passed through by this boring; for it is plain that these
rocks are only such as might be looked for within some
hundred feet or so below the coal measures, and it is
well known that none of them have been specular iron in the whole
Appalachian region. Specular iron ore, moreover, is a
crystalline and is only found in altered, crystalline rocks
such as are not known within a great distance of the well.
The redness of the water caused by the red rocks bored through
is no proof of the presence of such ore, for red sand
stones or shales would give the same color. It is likely, too, that
the specular ore would have been much harder to bore than
the soft red rocks are reported to have been. It seems
hardly possible that some bed of complacent passed through
in the boring may have had in it larger or smaller bits of
specular iron ore, the rubbish of some other rocks brought up
with it, or glittering and giving it in the

boring to the great quantity of chippings of sand, we found that this is very probable, and it is very likely that any masses of quartz we would have been changed into brown hematite or bog ore long before the conglomerate became so hard rock. Improbably as such a supposition is, it may yet seem preferable to the only other one that seems possible; namely, that somebody among those already mentioned as being about the well, or (perhaps still less probable) somebody else without their knowledge has been indirectly, mischief or carelessness, either put these chippings of quartz into the hole made by the auger through the trap door, or at the time of the first boring deposited them into the well or into the hole around the wooden pipe. The ore could hardly have been dropped into the well without the knowledge of the borers.

As might have been expected, carbonate of iron and carbonate of iron changed to brown hematite are found among the chippings from the well; but such that let to ore may have been concealed in the record of the well, and can only be guessed by the thickness of such beds in the same group of rocks at their nearest outcrops.

Benj. Smith Lyman.

1305 Walnut Street, Philadelphia

13 May, 1869.

[illegible] Philadelphia;
13 May, 1869.

A. Edwards Esq.

Montgomery, Ala.

My dear Sir:

Your favor of the first came to hand yesterday on my return to the city.

I would urge you by all means to sink such a shaft as you suggest in such a place as to show the thickness of the plumbago deposit. A trial shaft of this kind will add very much to the value of a geological survey.

It is possible that I may be able to go down sooner than I expected when I went last, say early next week; and in that case I will let you know immediately. It will be desirable therefore to have the trial pit begun right away.

Very truly yours.

Benj. Smith Lyman.

35 South Fifth Street, Philadelphia, 3 May, 1847.

Dear Clay:

Your entertaining favor of the second of this month only came to hand yesterday on my return from an absence in the mountains; for the letter carrier has some difficulty to get my order to forward my letters to me. I had begun to think that my getting no letters arose from a forgetfulness and my correspondents inability to spell the name of my first post office, Pennsylvania town; this village is in the extreme of Jefferson County in this state, west of the Allegh. and mountains. I may as well tell you as, perhaps, you would not find it out any other way, that I went there to stay in that region for several weeks, a month or two; but after talking to a personal friend of the region it proved the desirable to come down to the city for a day or two at least to enable a point to be decided, namely, in regard to the prospects of parties interested here in a certain tract that comes in on the high situation. Now that I am here it seems very likely that (as I thought likely, it would turn out) I shall not have to go back there again; as the information that seemed to be most wished for has probably been got already, and a more accurate survey can perhaps be indefinitely postponed. At the same time, my Alabama correspondent has written that he will await my convenience, and as I shall be liable to go there, perhaps early next week, if I do not go back to Pennsylvania. There are other projects connected with the Alabama trip, and still others independent of all these; so that I feel pretty confident of finding work to do now for some time to come. In fact it seems as if the tide had turned at last, and business would be better and better now. – Jefferson County, where I was, is in some respects a very interesting one. It is very wild and woody, and lumbering is the main business of the people there, and this is the season for rafting. Pennsylvania is a village of some five hundred inhabitants, and is one of the largest villages of the county. Throughout my trip I had for a companion a young man of the city, nephew of a late, very [illegible] of one [illegible] the [illegible] interested in the survey, and [illegible]

[illegible] at Freiberg. We were met at Indiana, [illegible] railroad, [illegible] and to all Jenks and taken by him in his carriage to Montgomery County, twenty seven miles to the north; and lodged in his comfortable house. He drove us about the country to look at the [illegible] of cases that were to be examined, and a party [illegible] at night at a hotel in the neighboring village of Rensselaerville. Mr. Jenks's family was quite an agreeable one; his wife, a pleasant woman of Pennsylvania Dutch and German descent; his oldest son, just grown up, a lively young man; his two daughters, three & four years old, the elder quiet and [illegible], the younger talkative and lively, like her father, pleased the [illegible]; his mother also talkative, one of the earliest settlers of the place and declaring that he was the first white child born there; his niece Miss Sally (then eight) who reached Indiana on the same train as we did and whom he had met at Pittsburg on her way from Illinois to make a short visit, handsome and right and western, though born at Bangor in Maine; and another young lady that called is another grandmother, but who was commonly called Miss Keller, her last name being Brady, and she being only an [illegible] from Fayette County, just the Southwest, handsome, well spoken, better educated than some [illegible], having sung and played the pianos, and [illegible] of me very. Miss Sally came from only eight miles south of Bangor, and had acquaintances there that I could not trace [illegible] of any of those there except Jenks and his wife [illegible] I should not know them. On our way from the [illegible] in the carriage the first day her uncle piked me a good deal about the comparative advantages of her country and this. On Sunday afternoon Messrs. Jenks, Yates and I went over to Brookville, the County town, and passed the night there in order to [illegible] some men there the next morning. Court week began there [illegible] and as we came away, towards noon, we met great numbers of country people flocking in. Mr. Jenks is a lawyer and seems to be the principal one of the county or one of the principal ones; and he has several younger brothers and brothers in-law who are also lawyers in that or adjoining counties; so that there is hardly a case tried there that one of them is not concerned in, and they are often on opposite sides. He is a very [illegible] man. — I saw Mr. Delano last yesterday, and he had been [illegible] at Hamilton [illegible] the evening before. He had been in danger of taking him up & [illegible], and

[illegible] Philadelphia, [illegible]

[illegible]

[illegible] Iron Works, New York.

[illegible]

[illegible] with you [illegible]

[illegible] and [illegible] the case,
[illegible] take from [illegible] and
that it would [illegible] twenty five hundred & three [illegible]
[illegible] particularly because [illegible]
[illegible] that [illegible] for them are already [illegible]
[illegible] might be put together [illegible]
[illegible] for the purpose. — He asked to be [illegible]
[illegible] and [illegible]
[illegible] of [illegible]

[illegible] Thomas [illegible] the morning [illegible]
[illegible] morning [illegible]
[illegible] and Jno. W. Thomas [illegible]

[illegible] already [illegible] longer [illegible]
[illegible] after all that I have [illegible] the Thomas [illegible]
[illegible] ing next week

Very truly yours,
Benj. Faught Lyman.

[illegible]

[illegible]

[illegible]

135 South 4th St. Philadelphia: 21st May, 1869
(Morning)

Mr. Nathan Ray,
189 Water Street
New York.

My dear Richards:

Your welcome favors of the thirteenth and twentieth ~~both came duly to hand~~; but I have been putting off an answer to the first in the daily hopes of being able to say some thing definite about going to New York as you so kindly suggest. I have been up in the mountains & came home ten days ago to see some business men who were in Philadelphia, and met them last Saturday. The meeting was adjourned over to Monday afternoon; in the mean time I have often had to go to New York on important business, and the meeting has been put off over since from one day to the next in expectation of his coming back. It seems likely at length that the meeting will take place this afternoon, and then I shall be able to tell what my next movements will be. If I find myself free to do so it will give me great pleasure to spend Sunday with you, and I will try to let you know this evening whether I can go or not. It will be an added pleasure to the visit to see Henry and his wife. If I cannot go perhaps you can give me some idea of the way by sending in a letter a bit of it as big as your thumbnail. If it should prove worth while, a complete array of it might be made either in New York or here. I have been a few days in the mountains of Western Pennsylvania, and may go back there for several weeks; in that case perhaps you can visit me in the wilds.

Very truly yours, Henry Charles Lea.

135 South Fifth Street, Philadelphia,
2 May 1869.

G. W. Gordon Esq.
Architectural Iron Works, Newark.

My dear Sir:

Your two letters of yesterday and day before have both come to hand this morning.

I dropped in at Mr. Thomas's, and told him that Mr. Case had come home; and Mr. Thomas said Mr. Case had been there himself yesterday, and had written. He did not tell me whether the document was signed or not.

It is quite likely that I may be here after all until next Wednesday, and in that case I shall be at the meeting. After that I shall most likely be away from home for a couple of weeks or more on business.

Very truly yours.
Benj. Smith Lyman.

[illegible]

[illegible]

[illegible]

[illegible] I am not sorry that you did not call to take leave of us; for I know you would have suffered much pain in the attempt, and I am [illegible] accounts of the health of Mrs [illegible] and family, it would be well worth [illegible] over a relation so precious can be sought! [illegible] [illegible] I am [illegible] [illegible] [illegible]

I thank you very much for your kind notes in my behalf in relation to the American Legation at London. I shall like the position you speak of very well, and should not object to it on account of its being a very [illegible] one, as I should not expect to follow that business all my life. Before the president's inauguration I was one of the [illegible] on all sides by everybody about the offices they would [illegible], the President kept so dark about his appointments, and [illegible] direct applications for office, and as it turned out, actually filled up the most Cabinet offices who had no expectation or wish of being appointed (among others my friend Judge Hoar of Mass. was first Attorney General, and one of the best, if not the very best, of the whole Cabinet, though the least widely known outside of Massachusetts). All the time I was there I was one of the first — a Cabinet officer or two excepted — to inform what I learned most to be the correspondingly [illegible] of Alas! after the Cabinet appointments were made there was no [illegible] of unpretending merit for the first places of government, but for [illegible] for offices must be made and backed by the best political [illegible] principle and [illegible] for compensation with the [illegible] claims for Mr. Lister, it would not be more agreeable to be attached to his [illegible] than to any other, but I fear that here [illegible] would [illegible] a much better [illegible] for such an [illegible] than I shall [illegible] for [illegible] I believe there is not in his family one [illegible] while he, personally, has resources from home, though his brother [illegible] is an old and particular friend of [illegible] family [illegible] Meanwhile, I think I should fancy a little diplomatic experience very well [illegible] mingling in general politics, and [illegible] it would be [illegible] good. — Meantime, I hope to improve as a geologist and [illegible] for the help of London libraries and learned men's society there; for meanwhile I have become a little wider, and [illegible] better than if I had been for a long [illegible] past. I am now here on [illegible] for only a few days, and then I shall go down to Alabama [illegible] a week, perhaps a little longer, before going [illegible] the mountains. — I am delighted about the prospect of your having a little holiday, and [illegible] you do not [illegible] so, I hope [illegible] to these parts [illegible] at that time. In that case, I shall be able [illegible] home, and by that [illegible] will let me know in time to bring it about if [illegible].

Give my best respects to your wife and sister, and believe me as ever

Affectionately yours. [illegible]

Latitude	Longitude				Marks
6	0°	0′	21″	(South)	8
7	0°	33′	30″		
8	0°	3[illegible]	20[illegible]″		8
8.3	1°	8′	40[illegible]″		.3
8.[illegible]	1°	4[illegible]′	40[illegible]″		.5
[illegible]	2°	16′	50″		
[illegible]	[illegible]°	52′	20″		
[illegible]	3°	3[illegible]′	0″		
[illegible]	4°	3[illegible]′	3[illegible]″		
[illegible]	4°	33′	20[illegible]″		
[illegible]	5°	[illegible]′	50[illegible]″		
[illegible]	5[illegible]	4[illegible]′	20[illegible]		9
[illegible]	6°	26′	3[illegible]″		
[illegible]	6°	4[illegible]′	30[illegible]″		
1	7°	14′	0″		
[illegible]	7°	39′	50″		
[illegible]	8°	7′	10″		
[illegible]	8°	3[illegible]′	20[illegible]″		
[illegible]	9°	7′	10″		.2
9.225	9°	39′	50″		
9.25	10°	14′	40″		
9.275	10°	57′	30″		
9.3	11°	3[illegible]′	30″		
[illegible]	12°	3[illegible]′	30[illegible]″		
[illegible]	12°	3[illegible]′	10″		
9.36	13°	14′	40″		
9.38	13°	52′	50″		
9.4	14°	32′	50″		.4
9.41	14°	53′	40″		
9.42	15°	15′	0″		
9.43	15°	36′	50″		
9.44	15°	59′	10″		
9.45	16°	22′	10″		
9.46	16°	45′	40″		
9.47	17°	9′	50″		
9.48	17°	34′	40″		
9.49	18°	0′	0″		
9.5	18°	26′	10″		.5
9.51	18°	52′	50″		
9.52	19°	20′	10″		
9.53	19°	48′	20″		
9.54	20°	17′	20″		
9.55	20°	47′	0″		
9.56	21°	17′	20″		
9.57	21°	48′	40″		
9.58	22°	[illegible]	40″		
9.59	22°	53′	40″		
9.6	23°	27′	40″		.6
9.61	24°	2′	36″		
9.62	24°	38′	10″		
9.63	25°	15′	0″		
9.64	25°	52′	50″		
9.65	26°	31′	50″		

9.65	27°	12′	0″	—
9.67	27°	53′	10″	—
9.68	28°	35′	50″	—
9.69	29°	19′	30″	—
9.7	30°	4′	40″	—
9.7085	30°	27′	50″	—
9.71	30°	58′	20″	—
9.715	31°	15′	10″	—
9.72	31°	39′	20″	—
9.725	32°	3′	50″	—
9.73	32°	28′	50″	—
9.73	32°	54′	20″	—
[illegible]	33°	20′	10″	—
9.74	33°	46′	20″	—
9.75	34°	13′	0″	—
9.755	34°	44′	10″	—
9.76	35°		50″	—
9.765	35°	35′	50″	—
9.77	[illegible]	4′	30″	—
9.775	36°	33′	40″	—
9.78	37°	3′	10″	—
9.785	37°	33′	20″	—
9.79	38°	4′	0″	—
9.795	38°	35′	20″	—
9.8	39°	7′	10″	—
9.805	39°	39′	40″	—
9.810	40°	12′	50″	—
9.815	40°	46′	40″	—

9.82	41°	21′	10″	—
9.825	41°	58′	20″	—
9.83	42°	32′	20″	—
9.835	43°	9′	0″	—
9.84	43°	46′	30″	—
9.845	44°	24′	50″	—
9.85	45°	4′	0″	—
9.855	45°	44′	10″	—
9.86	46°	25′	20″	—
9.8625	46°	46′	10″	—
9.865	47°	7′	30″	—
9.8675	47°	28′	50″	—
9.87	47°	50′	50″	—
9.8725	48°	12′	40″	—
9.875	48°	34′	50″	—
9.8775	48°	57′	30″	—
9.88	49°	20′	20″	—
9.8825	49°	43′	30″	—
9.885	50°	7′	0″	—
9.8875	50°	30′	50″	—
9.89	50°	55′	10″	—
9.8925	51°	19′	40″	—
9.895	51°	44′	30″	—
9.8975	52°	9′	50″	—
9.9	52°	35′	30″	—
9.9025	53°	1′	40″	—
9.905	53°	28′	10″	—
9.9075	53°	55′	0″	—
9.91	54°	22′	20″	—

| | | |

9.912	54°	50′	20″	—
9.913	55°	18′	40″	—
9.9175	55°	47′	30″	—
9.92	56°	86′	50″	—
9.9225	55°	46′	50″	—
9.925	57°	17′	20″	—
9.9275	57°	48′	20″	—
9.93	58°	20′	10″	—
9.9325	58°	22′	30″	—
9.935	59°	25′	40″	—
9.9375	[illegible]	[illegible]	30″	—
9.94		34′	10″	—
9.9425	[illegible]	9′	50″	—
9.945	[illegible]	46′	10″	—
9.9475	62°	23′	30″	—
9.95	63°	1′	50″	—
9.9525	63°	41′	20″	—
9.955	64°	22′	0″	—
9.9575	65°	3′	50″	—
9.96	65°	47′	10″	—
9.961	66°	4′	50″	—
9.962	66°	22′	50″	—
9.963	66°	41′	0″	—
9.964	66°	59′	30″	—
9.965	67°	18′	20″	—
9.966	67°	37′	20″	—
9.967	67°	58′	50″	—
9.968	68°	16′	30″	—
9.969	68°	36′	30″	—
9.97	68°	56′	50″	—
9.971	69°	17′	40″	—
9.972	69°	38′	50″	—
9.973	70°	0′	20″	—
9.974	70°	22′	20″	—
9.975	70°	44′	40″	—
9.976	71°	7′	40″	—
9.977	71°	31′	0″	—
9.978	71°	55′	0″	—
9.979	72°	19′	30″	—
9.980	72°	44′	40″	—
9.981	73°	10′	30″	—
9.982	73°	37′	0″	—
9.983	74°	4′	20″	—
9.984	74°	32′	30″	—
9.985	75°	1′	40″	—
9.986	75°	31′	50″	—
9.987	76°	3′	0″	—
9.988	76°	35′	30″	—
9.989	77°	9′	30″	—
9.99	77°	45′	10″	—
9.991	78°	22′	30″	—
9.992	79°	2′	10″	—
9.993	79°	44′	30″	—
9.994	80°	29′	50″	—
9.995	81°	19′	20″	—
9.996	82°	14′	10″	—
9.997	83°	16′	20″	—
9.998	84°	30′	20″	—
9.999	86°	6′	50″	—
10.000	90°	0′	0″ (north)	—

| | | |

[illegible] Philadelphia
1869.

[illegible] Attorney &c.

[illegible]

[illegible] 18[illegible]

[illegible] Sargent Esq.

[illegible]

Dear Sir:

I would make the getting in minutes and report with reference to the claims which you have filed and you offer of the evidence for [illegible] values, people in delivering of stones [illegible]

I can [illegible] of no one for you to do the work in my absence from the city should be too long for me. [illegible] Geo. Harper Jr. at Prof. John F. Harper's [illegible] above Fifteenth (No 1519) will be in town.

If you wish it I may be able to give you further information of my movements or suggestions the letter of my [illegible] probably [illegible] by Tuesday; and it is really possible that I may express a willingness to have the journey delayed a little or else finding a [illegible] [illegible].

Respectfully yours.

Geo. J. Smith Lyman.

[illegible] Street, Philadelphia, [illegible]

[illegible]

[illegible]

[illegible]

[illegible] interested in seeing my friend Dr. Koenig [illegible] [illegible] [illegible]

No. South Fifth Street, Philadelphia, 29 May 1869

T. H. Stephens Esq.

No. 17 Broadway, New York.

My dear Sir:

[illegible] Mr. Delano if he should write [illegible] me [illegible] [illegible] of Mr. Edwards [illegible] Boston Post Office [illegible]

[illegible] news of your death [illegible] yesterday after[illegible] [illegible] friends, but [illegible] [illegible] a most decided relief; [illegible]

Very truly [illegible]

[illegible] Stephens.

The "pet scheme" you speak of is really a very attractive one, and
under [illegible] most desirable [illegible] you
[illegible] so feasible in [illegible]. But if some one
[illegible] would not only be very [illegible]
way, if allowed to do so; [illegible] I still must [illegible] to prevent
[illegible] circumstances [illegible] be the right and [illegible] and
her above all for some [illegible] years past [illegible]
[illegible], wished to do so, at [illegible] clearly [illegible] fully and
[illegible] to say the least, doubtful [illegible]. The doubts you express as likely
to hinder you from carrying [illegible] scheme are, perhaps, in your [illegible]
the natural [illegible] [illegible] such grave [illegible] [illegible]
at tying yourself down to [illegible] daily cares and duties; not
[illegible] you will find [illegible] [illegible] difficulties, doubts in
[illegible] the [illegible] [illegible] as well as elsewhere,
[illegible] possible, would hardly
[illegible], and in so [illegible] you would be right in
[illegible] nice.

[illegible] evening next [illegible]
[illegible] friends here. [illegible]
[illegible] may turn up
[illegible] work for the
[illegible] lively as ever [illegible]
[illegible] spent in [illegible]
[illegible] I am [illegible]
[illegible] for [illegible]
what it should be. If you would not [illegible]
[illegible] Edwards [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible]

Report of [illegible] of the coal and coke furnished by Mr. [illegible] Pond, particularly of the volatile matter, coke and ash of the coal and of the ashes of the coke; by [illegible] of Lowell, Director of [illegible] of the [illegible] Bellefontaine.

I.

The sample of coal and coke furnished by Mr. Pond for first analysis was marked: "7 Bellefontaine-Belt, coal." There was perhaps half a pound of it. It was a very bright shining, black, pitch coal, with a black streak, and with a [illegible] of [illegible] in it. It was in a kelling. Its specific gravity was mean of two trials, $1{,}31 + \frac{1{,}32}{2}$, or about 1,32 times that of water. It yielded of coke (mean of four trials $68{,}31 + 68{,}1 + 68{,}8 + 69{,}\frac{6}{2}$) 68 per cent., the remainder (13,[illegible] per cent.) or 14 per cent. being volatile matter; and of ashes (mean of second and third trials $\frac{3{,}85 + 3{,}80}{2}$) 3,8 per cent. (one and eight tenths). The ashes were of a pale yellow color, or yellowish white.

I.

II.

The second sample was marked: Pa. Pittston Coal Co. Pittston Coal – 2 quality – Broad Top Coal Region – Dec. 1868. There was perhaps a pound in all of it. It was a very black, rather shining coal, columnar structure at right angles to the bedding, with a black powder, and with two or three thin layers of white running through it lengthwise. Its specific gravity was mean of two trials, 1,32 (1,30 – 1,34) more than quartz. Its yield of ash was (mean of two trials 84,5 + 85,5 – 84,5) only from one half to one and a half per cent, leaving 15,5 per cent and 15 per cent of fixed carbon, and also the same thickness (4,3 – 5,2 – 5,2) five and two tenths per cent. The ashes were almost pure white, with a light tinge of yellow and a few small specks of dark brown or red, almost black, crystal form.

III.

The third sample of coal was marked: Pa. Pittston Coal Co. Pittston Coal Best Quality – Broad Top Coal Region – Dec. 1868. There was less of this perhaps a pound and a half. The coal

II.

III.

was very bright shining, black, with black powder, with some two or three extremely thin seams of slate and a few small bits of pyrites, and with a columnar structure at a slight angle with the bedding. Its specific gravity was (mean of two trials, $\frac{1.32+1.32}{2}=$) 1.32 times that of water. It yielded of coke (mean of two trials, $\frac{85.8+85.6}{2}=85.7$) eighty five and seven tenths per cent., leaving ($14.2+14.2=14.3$) fourteen and three tenths percent of volatile matter; and of ashes to same two trials gave ($\frac{4.3+4.3}{2}=4.3$) four and three tenths per cent. The ashes were white slightly yellowish.

IV.

The sample of coke was perhaps a pound in weight. It was of a steel gray color, with metallic lustre, very compact and hard. It was marked: "Coke from Burnt Coal, made in pen air pits good quality Broad Top Coal Region Dec. 1868." It yielded of ashes (mean of two trials, $\frac{12.2+12.0}{2}=12.1$) twelve and one tenth per cent. The ashes were of a light purplish brown color, or pinkish and slightly yellowish.

Benj. Smith Lyman.

Philadelphia, 2 June, 1869.

was very highly shining, black, with black spots, with some
iron rose coloured, the seams of slate and a few round
lots of pyrites, and with a common absorption of a very
simple and it relating. My [illegible] generally was seen
from this side, $\frac{(32+132)}{2} = 132$ since last [illegible]. My side
of the [illegible] was found $\frac{(85\frac{1}{2}+85\frac{1}{2}-85)}{2} = 85\frac{1}{2}$ which
was found same side in each. Among [illegible]
[illegible] I have such [illegible] [illegible]
[illegible] 2 [illegible] [illegible] $\frac{(13+13-13)}{2}$
[illegible] I have such [illegible] [illegible]
[illegible] [illegible]

IV.

The [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] very
complete and [illegible] I have [illegible]. The [illegible]
had made in [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]. If [illegible] [illegible]
of [illegible] $\frac{(132+120-121)}{2}$ [illegible] and [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible].

[illegible]

[illegible]

Robert Hare Powel Esq

Benj: Smith Lyman Dr.

2 June 1869. To Assay of 3 Bals in Ore, received $30.

Received Payment

Benj: Smith Lyman.

Name.	Nos.	Spe. Grav.	Vol. Matt. %	Coke %	Ashes %
I.	1	1,32	13,7	86,3	—
"Felton Seam	2	1,31	13,9	86,1	3,8
best quality"	3	—	14,2	85,8	3,8
	4	—	14,2	85,8	—
	Mean	1,32	14,0	86,0	3,8
II.	1	1,32	15,5	84,5	4,1
"Felton Seam	2	1,36	15,5	84,5	5,4
Upper Section"	Mean	1,34	15,5	84,5	5,2
III.	1	1,32	14,2	85,8	4,3
"Barnet Seam	2	1,32	14,4	85,6	4,3
best quality"	Mean	1,32	14,3	85,7	4,3
IV.	1	—	—	—	12,2
"Coke from	2	—	—	—	12,0
Barnet Coal"	Mean	—	—	—	12,1

Name.	Number.	Spec. Grav.	Vol. Wt.	Corr'd.	Diffs.
I.	1	1,32	13,7	86,3	—
"Yellow Iron	2	1,32	13,9	86,1	3,8
Not quartz"	3	—	14,2	85,8	3,8
	4	—	14,2	85,8	—
	Mean	1,32	14,0	86,0	3,8
II.	1	1,32	15,5	84,5	4,7
"Yellow Iron	2	1,36	15,5	84,5	5,4
Not quartz"	Mean	1,34	15,5	84,5	5,2
III.	1	1,32	14,2	85,8	4,3
"Brownish Iron	2	1,32	14,4	85,6	4,3
Not quartz"	Mean	1,32	14,3	85,7	4,3
IV.	1	—	—	—	12,2
"Iron	2	—	—	—	12,0
Brownish Red"	Mean	—	—	—	12,1

Benj. Smith Lyman
has the honor of accepting
Miss Ansell's
invitation for this evening.

135 South Fifth St.
4 June 1869.

Gen: Smith Simpson
has the honor of accepting
Lady Franklin's
invitation for this evening.

187 Piccadilly W.
Wednesday.

[illegible]

[illegible]

[illegible] from two miles within [illegible] Hibernia, [illegible] any charge would be [illegible] half to be paid in advance and the [illegible] transportation and delivery [illegible]

If you may find the terms reasonable [illegible]

Very respectfully,

[illegible]

133 South Fifth Street, Philadelphia,
7th June, 1863.

Dear Sir:

As regards Fontaine for Alabama has been delayed [illegible] I [illegible] for the chance of [illegible] there. — I [illegible] you will [illegible] Alabama. — [illegible] one corner for sale. [illegible] General [illegible] [illegible] good one, & [illegible] very good one. [illegible] in his [illegible] coat [illegible] over one shoulder, [illegible] free [illegible] "[illegible] time" [illegible] — If you think it worth while you might [illegible] Correspondent telegraphed a week ago that [illegible] a [illegible] [illegible] [illegible] illness of his wife. He wished [illegible] [illegible] [illegible] [illegible]

[illegible]

35 South 4th St. Philadelphia, 8 June 50.

Dr. Wheadling,

Mr. Gwynn, Ala.

Respected Sir:

I must put off starting for a few days longer again, and will let not business might possibly induce me. I have no [illegible] for a surveying instrument that shall be portable & easy to carry with the hand, and it seems strange to my business. It was, as I only finished several days ago. [illegible] for it than to have it and find [illegible] effectually [illegible] me much longer than expected.

(Very [illegible] yours.

[illegible] Smith Lapham.

[illegible] Office Press, Philadelphia, 19 June, [illegible]

A. Ellicott Esq.

Dear Sir

Mr Lippincott

The instrument maker has not succeeded in [illegible] and, as it cannot well get done [illegible] I will wait until the day [illegible] that [illegible] tomorrow evening. He will [illegible] by [illegible] night of the [illegible] days [illegible] work. Here in Philadelphia we are [illegible] to hear from Washington. The Flag delays are [illegible] but I am indeed your last two letters would seem to [illegible]. Truly

Very truly yours.

Benj. Franklin.

Montgomery Ala. 14 June 1861

My dear Brother

[illegible]

[illegible]

[illegible]

Hartford, Ct., 14 June 1819.

Messrs. Geo. [illegible]

[illegible] Philadelphia.

Gentlemen:

[illegible] I might set upon [illegible] including [illegible] and the [illegible]. [illegible] in that [illegible] with such a new and [illegible] my [illegible] offer to [illegible].

[illegible] as soon as convenient, [illegible] a day [illegible] after getting this, and oblige

Your very [illegible]

[illegible]

Care of A. Edwards Esq.

Prov. & Post Office

Hartford

Ct.

[illegible] I am confident that you are capable of adding your plan successfully, and that you will do so, and as the work seems to you. If for your being fitted more for mining, you may have been [illegible] as when you first received a Company; but you [illegible] these [illegible] If mining fitted you much better for [illegible] than you are for any mining work [illegible] also fitted you much better for mining [illegible] than you were before. The mechanical experience you have had there will come in play one way or another [illegible] management of a mine; and puddlers and [illegible] not a great many steps (like the miners [illegible]) in regard to activity and general [illegible] in managing one but will teach [illegible] Still, it is nothing [illegible] a [illegible] would be better [illegible] position from [illegible] I only hope you will not [illegible] that you will [illegible] If you get the [illegible] at all. If you could not become attached to the working I think it would be for it than by you than mining would.

If you were [illegible] Pacific [illegible] before [illegible] California as [illegible] Hay [illegible] gold [illegible] [illegible] transportation and [illegible] but [illegible] this year. If [illegible] volume [illegible] something of the Pacific [illegible] and [illegible] that will pay. There seems [illegible] nothing [illegible] at present. [illegible] when you [illegible] [illegible] I [illegible] through [illegible] from [illegible] by way of [illegible] and [illegible] the price [illegible] [illegible] you [illegible] [illegible]

[illegible]

My Edward

[illegible]

My dear

If my letter [illegible] me [illegible] place [illegible] [illegible] possible that you have come, as I find [illegible] [illegible] [illegible] [illegible]

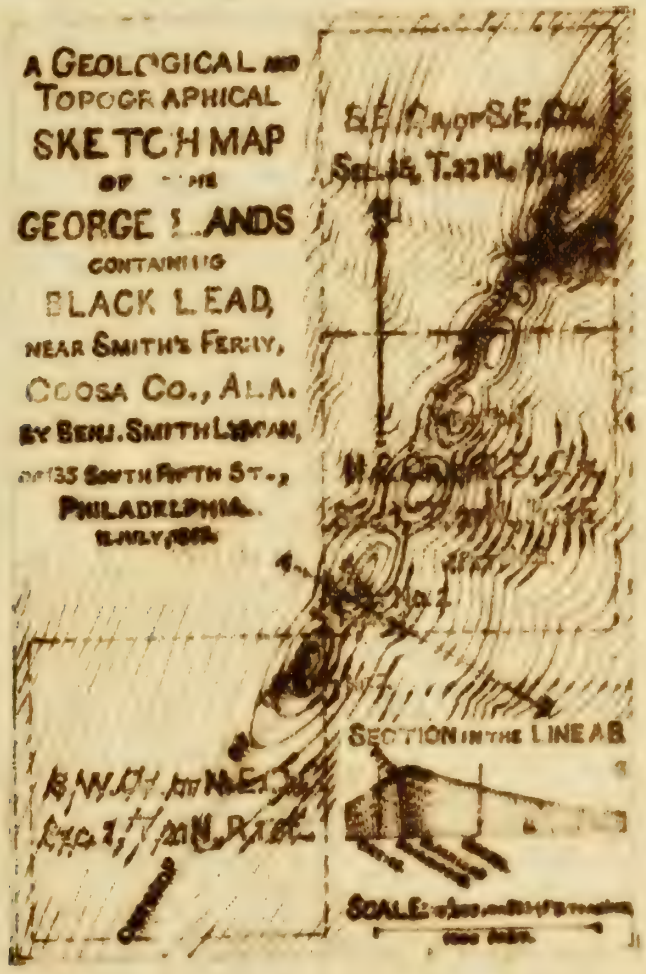
Spend the [illegible] [illegible] [illegible]

Warren Island

My dear M.

I came yesterday from my district of [illegible] Island to [illegible] Island. [illegible] Island [illegible] [illegible] [illegible]

Much. The [illegible] Schwedenmann [illegible] England. I feel [illegible] so much [illegible] good [illegible] Specimens &c. Berg. Mich.



Notes. The [illegible] bearing black lead is [illegible] of the Coosa River [illegible]

A GEOLOGICAL AND
TOPOGRAPHICAL
SKETCH MAP
OF THE
GEORGE LANDS
CONTAINING
BLACK LEAD,
NEAR SMITH'S FERRY,
COOSA CO., ALA.
BY BENJ. SMITH LYMAN,
1835 SMITH FIFTH ST.,
PHILADELPHIA.
JANUARY 1858.
SECTION ON THE LINE A B
SCALE

[illegible] and just south of Belchertown [illegible] south. They are the southeast quarter of the southeast quarter of Section 30, Township 22 North, Range 15 East, and the northeast and southwest quarters of the east quarter of Section 1, Township 21 North, Range 16 East; making in all 120 acres. The second mentioned forty acres lies just south of the first and west of it; and just southeast of the last and joining it by one corner. It is all hilly land.

[illegible] hill [illegible] through all three lots in a course about South 30° East. The ridge slopes very steeply on its northeast side and the southwest to a depth of some 50 feet, and the southeast than 250 feet.

Geology. The rocks of the mountain slopes are [illegible] as well as the foreign [illegible] seen [illegible] very steeply [illegible] 30° to the southeast; but it is [illegible] all [illegible] that there may be a saddle in the rocks in the shape that both sides of it may have the same dip.

The rocks seem to be all gneiss or [illegible] it in character, with some variations in composition in some places for example [illegible] schist, in others perhaps a mica schist or [illegible] quartzite, or even

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] down the hole

[illegible] the nearly vertical. [illegible]

[illegible] with a P.I. [illegible]

[illegible] five yards from the inner end is a [illegible]

[illegible] other towards the other [illegible] the

[illegible] seems the [illegible] about as thickly

[illegible], the roof is [illegible] at the other places but

[illegible]. The thickness of the bed [illegible]

[illegible] cannot be measured here, it would seem to be about five feet at each. Pit No. 4 is just above Pit No. 3 [illegible] hillside on a line with the course of the vein; and is a hole about ten feet long and [illegible] five feet wide and [illegible] feet deep. The [illegible] with black lead is to be seen as in Pit No. 5, but is poorly uncovered.

All the preceding openings would seem to be [illegible] of beds lying near light [illegible] the same vein, nearly in [illegible] the [illegible] in the [illegible] to be [illegible] in combination [illegible] the but [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] the same.

[illegible] there is a very small opening, [illegible] a few yards east of Pit No. 3 which should [illegible] rusty rock with little black lead in it, but less than is to be seen in the other pits. It would seem to be a small [illegible] above the other [illegible] may be a [illegible] like it that have never been opened.

No. 8 is a hole or cut that has begun in the

[illegible] in order to strike the [illegible] level, but was about [illegible] than a [illegible] twenty yards in.

Quantity of Rock in the Shetland. The Dolerite has been taken to cover in all about [illegible] hundred acres through the rocks; and to have the average, a level one hundred yards [illegible] average level [illegible] depth. If then, the whole [illegible] taken in the [illegible] yards and [illegible] off in [illegible] the whole amount of [illegible] would be 14000 × 100 × 27 = [illegible] cubic yards, or very a million tons. [illegible] only a very rough estimate as the [illegible] rock [illegible] more thoroughly found [illegible] much from what is taken here.

Average of Metals. In order to test the richness of the Shetland lead, we took samples that seemed to fair average of the veins wherever found in [illegible] and found the lead to be as rich as any of these averages [illegible]. The method being samples of

[illegible] was [illegible] from [illegible] which [illegible] No. 6. but these were not [illegible] average samples. [illegible] of pots [illegible] two [illegible] samples, that from the [illegible] end of Pot No. 2 and that from Pot No. 6, have been examined by [illegible] of pots [illegible] good [illegible] clearly. [illegible] found

	Average Sample from Pot No. 2.	Average Sample from Pot No. 6.
[illegible]	74 %	64 %
[illegible]	5 "	16 "
Iron [illegible]	10 "	[illegible]
Potash [illegible]	10 "	8 " } 10 %
[illegible]	1 "	4 "
	100 "	100 "

It is to be remembered that [illegible] from Pot [illegible] although [illegible] to be practically alike [illegible] were [illegible] no [illegible] than the [illegible] [illegible] and [illegible] in [illegible] [illegible] and that [illegible] more than [illegible] [illegible] black lead. Dr. Koenig followed my [illegible] in making use of the working process [illegible] the working on a large scale, and in only discovering [illegible] the value of potash in the black lead of Pot No. 6.

[illegible] Sample [illegible] fair
[illegible] field in Pl. No. 7 was [illegible] by a
[illegible] and found to contain only from
[illegible] per cent. of black land. This [illegible]
[illegible] was in [illegible], and between [illegible]
[illegible] by Dr. Lang's [illegible] [illegible]
[illegible]. [illegible] hardly so
[illegible] as the two others.

[illegible] 2. If by the field of the present
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] would give
[illegible] [illegible] black land, which [illegible] present
[illegible] [illegible] would be worth about [illegible] [illegible]
[illegible] [illegible] producing it would be [illegible] of [illegible]
[illegible] and working and preparing it for
[illegible] [illegible] [illegible] [illegible] and in some parts very [illegible]
[illegible] [illegible] [illegible] [illegible] such that [illegible] or drain
[illegible] [illegible] [illegible] easily [illegible] [illegible]
[illegible] [illegible] three hundred feet [illegible]
[illegible] [illegible] field. The cleaning and working
[illegible] [illegible] [illegible] because [illegible]

[illegible] soft as to crush easily, and small streams [illegible] clear that water for washing could easily [illegible]. Still even these operations would be more costly in the Colonies than in countries where mining has long been [illegible] on with success, and where there is a large number of men well trained to that work.

The greatest expense, however, would be the separation of the iron; and this would be quite necessary. The [illegible] assayed from Pit No. 2 was far more free from iron than samples from elevated [illegible]; and it is quite true that the pyrites responsible for iron left in the washed, impure black lead would increase as much as the black lead [illegible]. To separate this by hydrochloric acid, the simplest way, would cost [illegible] about the value of a pure black lead. Other cheaper ways of separating the iron might be devised; such as roasting the powdered ore with a certain amount of charcoal, so as to decrystallize the iron [illegible] washing, or dissolving it from dilute sulphuric acid. But it would probably need a year or two of experimenting, and a rather costly establishment, before

[illegible]

11

such a process could be successfully [illegible]
[illegible]. In Alabama the difficulties would
greatly increase by the lack of any [illegible]
[illegible] skilled in such mechanical or [illegible]
[illegible] work. In a country where skilled [illegible]
[illegible] labor is very dear [illegible] cheap, it would perhaps
be quite possible to work with profit a large
[illegible] iron deposits; but everything is so different
in Alabama that it seems clearly quite unwise
to [illegible] the trial.

Very truly yours,

[illegible]

Philadelphia

[illegible] 1887.

[illegible]

[illegible]

[illegible]

[illegible] Coke was used; and between 1[illegible] and the final abandonment of the fire at the breaking out of the rebellion in [illegible] this would not be sufficient for fuel the rooms were cold & bad, and that it is not very cold there with authorised fire fuel.

The [illegible] of the [illegible] are to be seen more fully from the following [illegible] [illegible] of the [illegible] a [illegible] [illegible] [illegible]

	10	
	60.10	56.72
	39.7	
	2.52	1.05
	0.35	0.0
	1.01	[illegible]
	[illegible]	[illegible]
	[illegible]	[illegible]
	[illegible]	[illegible]
	0.23	0.13
	0.09	
	[illegible]	1.15
		0.0

[illegible] the [illegible] of the [illegible] of the [illegible] [illegible] [illegible]

[illegible] not be [illegible] need [illegible] without [illegible] make iron well [illegible] [illegible] the [illegible] [illegible] [illegible]

Messrs. Witte and Hughes

[illegible] Mining Engineer,

[illegible] Report on Portland Ferna [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] for measuring distances with a level rod. It [illegible] the makers think the instrument would if new be worth [illegible] without the [illegible] and with them about two [illegible] dollars. [illegible] for measuring distances. They think also that it would [illegible] off one third of its cost [illegible] of one [illegible] hundred and forty dollars in its present state.

Very truly yours,

Benj: Smith Lyman.

135 South Fifth Street, Philadelphia, 18 [illegible]

[illegible] your first letter yesterday came duly
and it was one of the accounts of your birds and insects;
[illegible] the fuller account of poor Charles's curious
[illegible] his nieces though he
[illegible] children especially the estimable Totty. — I am very
[illegible] eyes do not decidedly improve; it seems
[illegible] could be absorbed, so that it would not be
[illegible] no idea it would take so long. I wish the
[illegible] in whom I have
[illegible] as a healthy learned and skilful oculist, although
[illegible] more than myself. Dr. Williams may be
[illegible] I know nothing about him. — I am glad to hear of Judge
[illegible] success in passing his examination; and of the pleasure you
[illegible] of such a visit to Glenmary.
[illegible] as planned the day after Parrot left
[illegible] from home six days. I found there Mr. and
[illegible] Mrs. Ford received me very kindly and we
[illegible] the fifth. The ladies of the household were
[illegible] children but I should have been asked to spend the Franklin time.
[illegible] owing to work that
[illegible] on the ceilings and walls in altering and creating
[illegible] in the rooms of the house
[illegible] days before I came away half a dozen painters
[illegible] and they were busy all the time. The
[illegible] were thus altogether from our
[illegible] and pretty uncomfortable. But these
[illegible] and the [illegible] owned houses became for the time
[illegible] to find Mrs. Ford during
[illegible] making a visit; had been there
[illegible] some days long. The family
[illegible] and the children were in excellent
[illegible] spirits, and I was very glad
[illegible] acquaintance with the so agreeably. The two younger
[illegible] children I had never seen before and it was a great pleasure
[illegible] to see them. [illegible] in French and German.

did; it was then much [illegible] [illegible]
when it is more natural than [illegible], and the line, who [illegible]
did not [illegible] seem as [illegible] to me a young [illegible]
[illegible] Mr. Jones partly in fun, because he was not so young
and seemed to have rather less than usual of the [illegible] [illegible]
perhaps because he did not come to the [illegible] [illegible] [illegible]
to Mr. Francis Simon, the human mind [illegible], was [illegible]
and was [illegible] and [illegible]. He that would talk nothing but [illegible]
[illegible] from. He would talk [illegible] [illegible] and talk [illegible]
[illegible] for [illegible] life in [illegible]. He talked exactly as [illegible]
[illegible] [illegible] talked [illegible]; for the rest already lived in
[illegible] [illegible] [illegible] [illegible] families. He says
he is not [illegible] and that eight years ago about the time [illegible]
[illegible] [illegible] with an [illegible] [illegible] of [illegible] four [illegible]
[illegible] daughters I used to dance with. He knew [illegible]
[illegible], [illegible] and I said they were the heirs of this bachelor uncle
[illegible] [illegible]. He had [illegible] lived in the family of a [illegible]
[illegible] [illegible] was thirty six years old and [illegible] [illegible]
[illegible] [illegible] because he was in [illegible] with [illegible]
[illegible] [illegible] [illegible]. There is also at Hyères a man with his
wife [illegible] [illegible] who came from Paris near Dieppe. The child
[illegible] [illegible] very much. He was very much excited and
[illegible] [illegible] of crackers, and he had a [illegible] [illegible]
[illegible] [illegible] also gave him [illegible] a hatchet, drawn in
[illegible] [illegible] another [illegible] [illegible] [illegible]. He is a fine [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] probably [illegible] in [illegible]. [illegible]
[illegible] [illegible] [illegible] before [illegible] [illegible] [illegible] while he was [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible] 1[illegible] 1[illegible] 1[illegible] 1[illegible] 1[illegible]

Hon. [illegible]
No. [illegible] Street, [illegible]

Dear Sir,

Send you herewith a pamphlet on the Bunting Collection, hoping that if any case in your line fall in your way, [illegible] Mr. Matthews who has the management of the publication [illegible] and [illegible] pamphlet [illegible] in Alabama [illegible] and [illegible] and [illegible] & humble Hon. [illegible] & larger generality [illegible] offenders. When you come this way [illegible] you [illegible] Mr. Matthews. He [illegible] for [illegible] made with [illegible] and [illegible] and [illegible] government [illegible].

Nothing but my calling your attention to this matter may lead to your benefit [illegible] & others [illegible].

Very truly yours,

Benj. Smith Lyman.

[illegible] Sept. [illegible]

Dear Mother:

I feel that I should [illegible] you [illegible] Northampton for their [illegible] kindness. The [illegible] of [illegible] Hill. Mr. [illegible] Hooker urged them to stand and spend their company through the [illegible] of [illegible] the revolutionists [illegible] and [illegible] from [illegible] wife. The old [illegible] [illegible] place, and [illegible] by the [illegible] [illegible]. I thought if it [illegible] possible you would [illegible] yourself for the chance to become [illegible] and perhaps [illegible] [illegible] so [illegible]. If you could do so you would [illegible] perhaps [illegible] but would be [illegible] I think it become you would find in knowing them better. Happy [illegible] a little [illegible] and formal at first, but they will be [illegible] [illegible] out in your [illegible] and prove very agreeable.

The Rutlers [illegible] Mrs. Rice last Friday morning at [illegible] a place for [illegible] the Rutlers, and Miss Rutler [illegible] they [illegible] seemed [illegible] [illegible] for [illegible] [illegible] by their [illegible] [illegible] [illegible]

Please [illegible] my love to [illegible]

Your affectionate [illegible]

[illegible] Lucius.

[illegible] Philadelphia, [illegible]

[illegible] Esq.

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] one [illegible] today [illegible] for [illegible] stamping [illegible] [illegible] for [illegible] than [illegible] [illegible] and [illegible] [illegible] with an [illegible] [illegible] [illegible] [illegible] I send herewith circular of Wilson's patent steam stamping mill [illegible] [illegible] [illegible] [illegible] [illegible] a better new one. It [illegible] [illegible] [illegible] [illegible] [illegible]

Since writing the foregoing I have been at the Academy on Friday this evening and [illegible] the note is received from the Rational Academy will [illegible] be no meeting until the one at the usual hour next Spring. The [illegible] was at the meeting this evening [illegible] I said in my first [illegible] until September [illegible] — I have also the evening bill before the critical [illegible] every instrument [illegible] still another [illegible] and the time is so adopted [illegible] the critical [illegible] left for inquiry [illegible] for [illegible]

[illegible] 18[illegible] [illegible], Philadelphia, May [illegible]

Warren De Lano Esq.

No. 55 Broadway, New York.

My dear Sir:

Your favor of the thirteenth of last month came duly to hand yesterday morning enclosing a check for two hundred and thirty dollars to pay for the surveying instruments you wished me to buy and send to Mr. Wirt of the Northern Mining Company. I bought the instruments according to your bill and had them packed the express yesterday evening except the level rod, [illegible] for Young, [illegible] which I could not get until tomorrow and [illegible] and straight edge. The steam gauge was also paid for and [illegible] the [illegible] and the tripod. Still [illegible] of dropping from the list the protractor [illegible] at all [illegible] not take the place [illegible] you [illegible] offered in [illegible] the protractor with [illegible] blade and one [illegible] on a square sliding head, called in the trade "a T square" [illegible] and [illegible]. This last has [illegible] for years past [illegible] rare [illegible] and would [illegible] the [illegible] made, and could be [illegible] as Queen's or [illegible]. [illegible] also had no [illegible] straight edge of [illegible] inches [illegible]. The drawing [illegible] are all packed by [illegible] the [illegible] gauge and tripod and by [illegible] and the level by Young. [illegible] as follows:

1 Horse Protractor, No. 204, Keuffel's Catalogue	$1,25
1 Triangular Scale " 228	2,00
1 Steel Straightedge " 317 (36 in.)	7,50
1 Common Steel Triangle " 325	2,25
12 yds (¾ doll) Tracing Muslin, 40 in. wide,	11,50
10 " " " Tracing Muslin Cloth, 40 in.	11,00
10 " Profile Paper, Scale B.	3,00
10 [illegible] Profile Paper	2,50
1 [illegible] Cartridge Lead	1,00
½ doz Camel's Hair Pencils	50
1 Cake Indian Ink	25
2 doz Prime Blue Pencils, No. 137	50
Commission	[illegible]

Queen's bill, as per forward	$43,55
Steam gauge and lighter	10,50
Tomatoes	140,00
Lead rod	16,00
Boy for finding lead rod	40
	$210,45
Broker's fee for taking S.N.O.	,25
	210,70
Balance in my hands	19,60
	$230,00

Hoping that this may prove wholly satisfactory, and that the instruments may all reach their destination in good order, I hold the balance against your coming this week, unless you advise direct, herein.

Very truly yours.

Benj. Smith Lyman.

135 South Fifth Street, Philadelphia;
1 Aug. 1849.

W. Delano Esq.
No. 55 Broadway, New York.

My dear Sir.

Your favor of the thirtieth of July, enclosing two checks amounting to eleven hundred dollars, came safely to hand yesterday morning, with its instructions to pay off the judgement against the Union Coal Company.

The reason why the attorney refuses to mark the judgement to your better was as you said it was that both Mr. Power and Mr. Gummey, for Mr. Parkhurst will not consent to that arrangement, and it is the attorney's habit never to do so without the consent of all the parties interested. Mr. Power even after getting your letter totally refused his consent, and so does Mr. Gummey. Mr. Power did not call at Thomas's for his letter until I had hooked him up at the Girard House, and so did not get it until about half past eleven. Pearley and I had already been to the office of the attorney entitling the judgement (Mr. Ridgway) and in his absence from town and agreed to meet his representative there Mr. Montgomery, at twelve o'clock, as Montgomery wished to have it at half past twelve to spend Sunday. On our all meeting there at twelve (not Gummey, of course) Mr. Power repeated again and again, that he had already offered money to pay his half of the judgement and costs; and this seemed to me decidedly better than your paying it for him, seeing that you cannot have the judgement marked to your use. On conferring with Pearley he agreed with me, and we were for carrying out the arrangement right away; but Power thought the entering up of the business would take much more time than Montgomery had left at his disposal yesterday morning, and so the whole matter was put off until tomorrow morning at half past nine when all promised to be there punctually again. Pearley says the company will not become liable in any way to any claim from Power for the remainder of the share; so that it does not seem possible to compel the company or you that he should pay his share right away. We offered him to make out his check to Montgomery and send to you, for Montgomery says he will take it. Montgomery also refused to mark the judgement to any trifling sum under the full amount paid to the judgement was in coin just 709 dollars or so. The costs will be about [illegible] hundred dollars in all.

Very truly yours. Benj. Matthewman.

35 South 3rd Street, Philadelphia, 1 Aug. 1879

Dear Father:

Your kind favor of the 19th came to hand yesterday. I am afraid that I have raised much too high anticipations of the pecuniary profit I am likely to derive from my invention of the measuring instrument. There is a great deal of speculation among folks not especially conversant with the matter, but in these fortunes are frequently made by persons who are not engineers. I have more than once to do with persons who have spent their family, time, money and nearly everything on a thousand and one worthless and absurd inventions, and at last prove to be of any important pecuniary benefit to the inventor or anybody else. It is not worth while to form any great castles in the air, nor to say anything about it, and even an invention. The only invention, therefore, that I am willing to give much time and care to is one which I have worked upon for some years: and which I should like to see a civil engineer or land geologist or surveyor use. The measuring instrument is one of the things in the way of invention which I have the least hope of its being a success. The instrument maker recommends patenting it, and if the patent should save me the cost of getting an instrument made for my own use, I think it worth that and the little glory the invention may bring. I shall have no very great reward from it. I think of trying the instrument maker to make me an instrument and pay the expense of taking out a patent in return for one-half of the patent right, say one half. In order to get a patent it will be necessary to furnish a working model at the patent office, which will of course make some expense besides the fees of the office. I am aware of the practice and method of getting a patent. [illegible] will very likely not be necessary for this invention, and it is very likely to be invented by anybody else just

[illegible] no doubt [illegible] [illegible] make for many [illegible] [illegible] that [illegible] [illegible] experience in [illegible] [illegible] would equal a [illegible] of [illegible] for one to [illegible]

Mr. Lesley had not got home yesterday morning from Hilton [illegible] that he should come home Thursday and that Mrs. [illegible] was and will be with me [illegible] Monday that [illegible] well as well as Mary, and that Mary was at Rice's, but would return on Thursday next and the Mary would then go [illegible] Mr. Lesley. Uncle Joe was in usual health, [illegible] Hill and had just [illegible] was [illegible] from injured; and Tom had got home and Frank was expected at home; and [illegible] Kelly was there too. Mr. Grinaly and Aunt Susan were [illegible] Hilton next day, and Mary and Charley gone there.

Mr. Delano was here on Thursday, and said he had [illegible] all as well as usual at Albany, and since leaving [illegible] on Monday he had seen Count Kelly the next day at [illegible] Fabbi's at Pittsfield on his return birthday. I [illegible] that Mr. Delano will be here [illegible] next week [illegible] likely. The Car company's affairs stand along still without much change. I fancy that Mr. Delano was disposed to the idea of making me Secretary of the company; and it is very likely that the place would not be a desirable one even if I could well [illegible] Meantime there are a number of little things connected with the company on which for Mr. Delano went and they need so I am getting acquainted with the state of his affairs, but am learning a little about the way business is done.

Please give my love to all.

Your affectionate son.

Benj. Smith Lyman.

13, S. Eighth Street, Philadelphia, [illegible]

My dear Stanton:

Will you be so kind as to send me the Seal of Rebellion, [illegible] of the 22d [illegible] the same reason [illegible] in its legislation, although your copy is already [illegible] my table.

Since I wrote you from Montgomery, [illegible] some experience you I have [illegible] with travelling [illegible]. I retired for home [illegible] evening [illegible] gentlemen, and got home in three days. After being here [illegible] days or two I set off for Pittsburgh [illegible] Indian Quarter [illegible] miles below Pittsburgh, [illegible] for [illegible] days [illegible]. Then, after two or three days at [illegible] I [illegible] to spend [illegible] at my mother's. But was [illegible] by the invitation of the husband [illegible] [illegible] here. After being there merely a week [illegible] I have [illegible] here [illegible] [illegible] [illegible]

[illegible] became [illegible] and [illegible] by the [illegible] [illegible] and [illegible] medicine. Against the [illegible] [illegible] [illegible]

135 South Fifth Street, Philadelphia, 2 Aug. 1842.

[illegible] Esq.

Montgomery, Ala.

My dear Sir:

[illegible] last mail in morning Mr. Power, Mr. [illegible] Mr. [illegible] and [illegible] the [illegible] in [illegible] the judgment and costs were paid in full [illegible] the Company [illegible] for your order for [illegible] Mr. [illegible], in whose name at least our receipt is [illegible] was given. The receipts given to Mr. [illegible] [illegible] for [illegible] expenses, and that [illegible] paid his [illegible] Mr. [illegible] the Company's [illegible]. [illegible] the receipts, as it is taken at his office there [illegible] and [illegible] with you. You will say and [illegible] the receipts, or not you or any [illegible]. Mr. Montgomery says he will write the [illegible] that may prove to be [illegible] very decent fellow, and in his [illegible] is by [illegible] in College. This [illegible] instructions [illegible], but [illegible] authorized me to be, and [illegible] I [illegible] merely be [illegible] you did not [illegible] being willing to pay down on the spot. I [illegible] hope that [illegible] satisfactory to you. When Montgomery [illegible] we should [illegible] the [illegible] steps [illegible] Saturday [illegible] [illegible] these steps have already [illegible] [illegible] [illegible]; but there will be no further action in [illegible] [illegible] and [illegible] after that the [illegible] [illegible] will be [illegible]. Mr. Power [illegible] [illegible] [illegible] that it be done.

Order sent one two checks amounting to $1100,00
To judgment & costs see receipts were taken $582,10
Checks charge for carriage & [illegible] $ [illegible]
Balance in my hands 56665 $1100,00

Power is the [illegible]

Shall I send you the balance or by [illegible] [illegible] Power for [illegible] the [illegible] with [illegible]

P.S. Thomas [illegible] yesterday [illegible] you [illegible] Friday.

3 [illegible]

[illegible]

[illegible]

[illegible] Your [illegible] yesterday is at hand, and that [illegible]
[illegible] the amount due of the [illegible]
[illegible] and that is $[illegible] since the receipt of the gold, although [illegible]
[illegible] the exchange [illegible] higher price than gold [illegible]
[illegible] and indeed it has gone from the first [illegible]
[illegible] and, health, but, what with [illegible]
[illegible] nearly increased by the [illegible]
[illegible] the [illegible] to me [illegible] as it depends [illegible]
[illegible] which we [illegible] to him and [illegible]
[illegible] the [illegible] we have [illegible] this [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [

135 South Fifth Street, Philadelphia, Oct. 7th, 1869.

Co. L. Whitney.
Mahanoy & Boston Colliery, Schuylkill Co. Pa.

Dear Sir:

Your favor of yesterday is at hand. On inquiring at Queens I find the drawing materials, tripod head and steam gauge were all packed in one package, & find that it did not get off by express on Saturday after all, but was sent on Monday. The level rod was also sent on Monday from Lyons, and as that too had not come then at the time of your writing, they will probably send you later in the day or else will do so today. The transit and tripod went by express on Saturday evening, and so arrived sooner than the rest. It has taken much longer than I expected for the things to reach your place. If they should not have come safely to hand before you get this, please let me know.

I take the liberty of sending you a paper of mine on measuring with the telescope, as you may be interested in seeing it (on page 9) an accounting of some feats of the very transit just sent to you.

Yours truly.

Benj. Smith Lyman.

[illegible]

[illegible]

Dear Sir:

Your question regarding is at hand. In reply to your inquiry we beg to advise that the drawing mentioned, [illegible] and return pump [illegible] included in the package, although it did not get off by express on Saturday after all, but was sent on Monday. It should not have been delayed [illegible] Your telegram, sent on receipt to find [illegible] at the time [illegible], they will probably receive it later in the day or else will do so today. We forward and [illegible] express on Saturday morning, and [illegible] [illegible] [illegible]

135 South Fifth Street, Philadelphia, 6 Aug. 1869.

Dear Mary:

Your favors of last Saturday and Sunday came duly to hand. Your account of the surprise party in honor of Mother's birthday was quite interesting, and I was glad then that you had been able to see something of the Whitehouses. You make particular mention of the comfort they found at the Mansion House, as if perhaps in answer to the regret I expressed that they should have to go there; but that regret was not based wholly upon any lack of comfort they might have there. I trust they will find the new hotel at Brother all that could be desired. This house here still stands in apparent good order and safety, at least it did so last Tuesday evening when I passed there. Still, we manage to have pretty big fires here now and then, as you have probably seen we did night before last. The fire then was only about half a mile south east of this place, and I went to see it. I was at Mrs. Palmer's that evening, and the alarm bells and the bright light in the sky, although some three miles from the fire, told us that it must be an uncommonly large one. On coming home about eleven I kept on down to the fire, and found it really a very fine sight. It had been burning then more than four hours and did not yet show any signs of being [illegible] under. The flames were very high and hot and the water seem

37 Market Street Philadelphia, October 1[illegible]

Dear Sir:

Your favor of last Saturday week has been duly received. Your recollection of the process, lately in favor of [illegible] being very partial-interested, and I was glad when that question had been with their consulting of the highest power the made particular mention of the transportation personal at the Mansion House, as I judge is owing to the report I represented that they should have done this; but that report was not based actually upon any lack of transport the mayor have [illegible]. I most they will find the Municipal authorities all that could be desired. This house we still adhere to, as most good order and dignity, although did we have the delay increasing when planned time. Still we manage to have pretty tea price now and then, or somehow particularly seem we did regret to have lost. The [illegible] time only although a week sufficient of this place, and I must leave it. Have a [illegible] Palmer [illegible], and the column hold and the Mayor's legal is it [illegible], although [illegible] time [illegible] the [illegible], still we that it would be [illegible] unnecessarily large [illegible]. On coming home [illegible] I left in [illegible] [illegible], and found it really a very pleasant sight. Mind been [illegible] the [illegible] time [illegible] [illegible] did not [illegible] any [illegible] [illegible] [illegible]. The [illegible] were very [illegible] and [illegible] the [illegible]

and have the least effect of rum, although poured in in many large streams. At one time I saw the whisky running down the streets in a broad stream covered with a blue flame; a delightful odor as of plum pudding with rum sauce pervades the air. I saw a good many drunken men, but did not see what is said to have taken place, the breaking in of some of the whisky barrels by firemen and others and the dipping out of the delicious beverage by the hatful and drinking of the same; some of it is said to have been in these storehouses for twelve years. Imagine its fine quality! — I had a charming evening with Mrs. Palmer. She was expecting Mr. and Mrs. Wright home the next day from steamshore, and said he was much better. She said Mr. and Mrs. Hopper had gone to Chicago on some business of Mr. Hopper's and had just come home after an absence of three weeks; that Mrs. [illegible] came back by Stoneburn and brought with her from the [illegible] Mrs. Isabel Parrish. It is also said that Mr. [illegible] and his family and Miss Maria Hopper are to come home in October. It is said too that Mrs. Lincoln shows somewhat the effects of her age (76½), at least is restrained by her children from travelling about so much as formerly. Mrs. Palmer extolled her daughter most highly after an acquaintance with her from early childhood. Mrs. Palmer said she should hardly be home three or four weeks after this month, I believe. — Mr. Leslie got back from Milton on [illegible], in improved health and good spirits; but he said that Mrs. Brown was not very well. — The weather here is delightfully cool, but we had one day a few days ago that was quite hot.

Please give my love to all. Your affectionate Brother
Benj: Smith Brown.

[illegible] Item, [illegible] [illegible] in
[illegible] [illegible]. [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible]

185 South Fifth Street, Philadelphia, 6 Aug. 1859

My dear Sanborn:

Your very welcome letter of the third came to hand yesterday. It would certainly give me great pleasure to accept your kind invitation to go on to the Lyman picnic and visit you about that time or the time of the Salem meeting, and I am enable promise for you company at both of those gatherings is a great additional inducement or temptation towards going. I hardly think however that I will go to either, as there seems to be quite a possibility of my having some professional paying work to do if I stay here that I might lose if I should go. I took a little holiday to the extent of a week at the first of July and I should hardly feel easy in my mind if I took two or three weeks more now. I have no severe and long continued labor to rest for, and on the other hand if I stay at home I shall perhaps be doing a little more of the work that properly occupies one than if I go pleasuring about the country. Still, I would go if I could advertise my surveying instrument at Salem; but it will not be possible to get it made in time; the instrument maker has so many orders on hand that he cannot take it off right away. Meantime, a number of improvements in some of the details occur to me every day or two, so that nothing perhaps is lost in reality by the delay. I can bring the matter before the public anytime through the Franklin Institute and its journal, and can also bring out in the same way my projects for illustrating the laws of surveying and plotting, projects quite unconnected with this special instrument. I think I shall get a patent for the instrument, although I doubt whether it will pay very well. I also mean to print and stereotype a couple of small tables in aid of the easy way of plotting, but doubt whether they will be made use of by anyone but mathematicians after all. Surveyors don't seem to be much more disposed to use tables than any other class of men. – My friend Mr. C. R. Lawrence of the Architectural Iron Works of New York and lately elected president of that Gas Company in West Philadelphia of which I wrote the last spring, was here last Thursday at a stockholders' meeting and I learnt that night from him. He told me about some little tables of his for computing very quickly the weight of iron and steel in different shapes and sizes, tables whose use is extremely simple but he finds it impossible to persuade the men connected with the Architec

Final works to see them instead of more cumbersome ones that have been longer in use. He also described to me his plan for an adding machine, which he says is far better than your Correspondent Webb's; although Webb's idea is taken from a part of his, though his having described it some time ago to a Philadelphian who gave the idea to Webb or Webb's patentee. This Mr. Gordon is a curious character and a very good fellow. Although mixed up with these manufacturing concerns and wholly occupied by dark business through the week he is on Sundays a preacher, either Universalist or Unitarian, and he is a born forerunner or public speaker. In private he is a great talker, but an agreeable one and a good story teller, an excellent mimic. He was born at Salem, in Rockingham County, New H[illegible], and is distantly connected with my Epsom family. He removed however from that region quite young to Boston, and came four years ago to New York City. He was settled or lived at one time in Utica. He seems to have kept up some acquaintance with eastern New Hampshire by travelling long after he lived there. – This Car Company has not yet fully organized its board of officers, and its works are still idle; what will be the final result of the delays and deliberations no one seems to know.

I read with much interest your letters from Dartmouth College in the missing Republican you [illegible] kind as to send. Your tribute to the fair eyes is really quite glowing. May I some day have the good fortune to lay my eyes upon the lovely Mrs. Duncan. – I have also to thank you for another the publication bulletin unacknowledged that came some weeks ago. – I am not sure either that I have mentioned receiving several copies of the Report of the Board of State Charities, three for myself and several others addressed to different bodies etc. With them came a note from the new secretary through his clerk. It gave me pleasure to distribute the copies, one the first one more I gave, to last year, to the Hoppers and Miss. White. The reports of the deaf and dumb school at Northampton came about the same time. Mr Butler here, the executor of John Clarke, told me the other day that a hasty examination of Mr. Clarke's Estate showed that there were some $80,000 worth of property, so that the deaf and dumb school would have to wait only forever six years for its $20,000.

Please give my regards to your wife and family, if either are with you and believe me ever Very affectionately Yours, J. Smith Homans.

135 South Eighth Street, Philadelphia; July 18th.

W. H. Ogden Esq.
Broadway, N. York.

My dear Sir:

Your favor of yesterday is at hand. Mr. White writes me also that the tripod head and drawing materials had not come to hand. On inquiring at Queen's where they were all packed together in one package it turned out that it had not been sent to the office until Monday, instead of Saturday as they had hoped. The camera and tripod were sent on Saturday; and as the level rod, sent on Monday, had not yet arrived, it is likely that the missing articles all turned up within a day after Mr. White wrote. I wrote this also to Mr. White.

Very truly yours.

Benj. Smith Lyman.

[illegible] Fourth Street, Philadelphia, [illegible]

Dear Mary:

[illegible] Joseph Lecky yesterday and [illegible] Polk Street, and he told me that he had within a day or [illegible] there would be a meeting of the Board of Managers of Science at Boston on the third Friday [illegible] and I think it would be very fine for Alice and [illegible] to come home. Alice [illegible] for herself and [illegible] and [illegible] [illegible] time the meeting and they [illegible] at [illegible] the reason he does not write [illegible] Mother [illegible] trouble him.

Bailey was not very well, but went to school in the morning. His wife was [illegible] so that they seem to have [illegible] [illegible] found time [illegible] cold [illegible] [illegible] [illegible]

[illegible]

[illegible]

[illegible]

The bearer of this, Winfield Scott Caldwell, is now nearly twenty-two years old. When a boy he was a waiter in this city; then he lived for six years, until he became of age, on the farm of Mr. Wm. Perrine, in Cranberry, New Jersey; and since that he has been a waiter in a private house and in a store and otherwise occupied in this city. His mother has lived for many years in this building, and is a very worthy woman, and has brought him up to be honest and industrious; and he is very highly spoken of by Mr. Perrine and other employers. My personal acquaintance with Mr. Caldwell is but slight, but from what I have heard and from his looks and behavior I should think that he was quite trustworthy and would make a good waiter, coachman or gardener.

Benj: Smith Lyman.

135 South Fifth Street, Philadelphia;
18 August, 1869.

The bearer of this, Mr. Joseph Gilbert, is my recently married twenty years old. When a boy he was a resident in this city, then he lived for [illegible] years, until he became of age, in the house of his uncle, Mr. Preston, in Cambridge, New Jersey; and since that he has been a resident in a private house and in a store and otherwise employed in this city. His mother has lived for many years in this building, and is a very worthy woman, and has been quite from up of the honest and industrious; and he is very highly esteemed by the Parents and other employers. My personal acquaintance with Mr. Gilbert is but slight, but from what I have heard and from his looks and behavior I think that he was quite trustworthy and would make a good worker, [illegible] or [illegible].

Geo. Smith Clymer.

137 South 3rd Street, Philadelphia.
11 August, 1879.

[illegible] Fifth Street, Philadelphia, [illegible]

My dear [illegible]

[illegible]

My dear [illegible]:

I was [illegible] welcome for your kind [illegible] and [illegible] [illegible] will be [illegible] for [illegible] a way in which I may be [illegible] [illegible]. I have looked carefully in the Ledger [illegible] and [illegible], and find [illegible] [illegible] [illegible]

[illegible]

[illegible] Sunday evening [illegible] Mr. and Mrs. [illegible] some time [illegible] [illegible] sitting at breakfast [illegible] [illegible] Sunday morning [illegible] [illegible] canal [illegible] [illegible] [illegible]

[illegible]

[illegible]

[illegible]

My dear Sir:

You would have come [illegible] just at hand, and I am delighted to learn by Mr [illegible] that I shall see you so soon here. I expect to be here [illegible] a week longer at least, and possibly longer. I have been looking for you for some time, and feared you might have come during some intervening [illegible], [illegible] I was not prepared to.

Hoping that I shall have the pleasure of seeing you very soon, I am as ever,

Yours very truly,

Benj. Smith Lyman.

135 South 4th St. Philadelphia

C. C. Gordon Esq.

New York.

My dear Sir

[illegible] today. I have this morning seen Mr. Potter and explained your not having come [illegible] requested me to do; and found that he had also a letter [illegible] day. I also saw the day waiter man and gave him your message. He would be paid. He seems to be a very faithful fellow and has been at [illegible] for a number of years. As it is the murderous holes are, it would [illegible] the proper protection of the [illegible]. He has a family [illegible] and has to pay rent monthly for [illegible] clothing, and, as he is poor, well, needs the money [illegible]. He [illegible] Mr. Potter has furnished him with [illegible] but has not paid him in full. The day waiter man said [illegible] was due him when the present Company took [illegible] was paid in full by Mr. Fischer [illegible] full claim; as we feel the [illegible] confidence [illegible]. Still, he is very impatient.

I find that Mr. Levy has just gone home. He says he will work again [illegible] is taking a direction, while he is the Company's Police [illegible]. He will also find out whether Mr. Morris has begun any proceedings [illegible] ground rent of the Real Estate.

Mr. Thomas is getting ready the statement you wish of the accounts [illegible] the Company by Mr. Brewster, and I will examine it in this before mailing it. He knows nothing of any proceedings with Morris, and is [illegible] not entitled.

The meeting tomorrow will be postponed until tomorrow week at two o'clock in the afternoon; unless something to the contrary should be received from you with Mr. Thomas by [illegible]

Very truly yours.

Benj. Smith Lyman.

[illegible] Street, Chicago, Aug. [illegible]

[illegible] 22d, 1869.

Mr. J. B. Woodway, Newport.

[illegible] from yesterday [illegible] hand. I have been [illegible]
[illegible] Gen. [illegible] the engineering [illegible] the [illegible] affair [illegible] under [illegible]
[illegible] Allen and C. [illegible]
[illegible] not be
[illegible] the price [illegible] He would need the engine and indeed
[illegible] in another [illegible] making 8 [illegible] in all; [illegible]
[illegible] for [illegible]
[illegible] about. He would likewise need the shipping
[illegible]. The other machinery could
[illegible] from [illegible]
[illegible] would be needed by him. He
[illegible] capital [illegible]
[illegible] satisfied with a [illegible] for [illegible] years. He would
[illegible] building [illegible] we would [illegible]
needed [illegible] and would pay it from that time on.
He would [illegible] Company [illegible] for [illegible] years [illegible]
[illegible] to [illegible] years longer [illegible] and [illegible] for [illegible] if they
[illegible] paid [illegible] of the three five or seven years. He will
be [illegible] and [illegible] but he really thinks that
price would be enough to suit him. He did not [illegible] to be
[illegible] pieces; but he likes the idea very well, better than to make the
[illegible] in [illegible]. He would wish for but little and about [illegible] dollars, should
like to have a [illegible] in [illegible]. His effects have $50 or $100 [illegible]
[illegible] good [illegible], and may after all be disappointed. He [illegible]
to [illegible] account of the railroad racks, but [illegible] get [illegible] at [illegible]
He [illegible] very much pleased with them except the
[illegible] that [illegible]. [illegible] would be a meeting next week [illegible]
Mr. R. C. [illegible] for the [illegible] grounds [illegible] $[illegible] in gold [illegible]
[illegible] the [illegible] $[illegible] gold
[illegible]

[illegible]

R. H. [illegible] Esq.

[illegible] Sept. 8.

My dear Richards

Your welcome favor of yesterday is at hand, and I am much [illegible] at the [illegible] fever. [illegible] of a [illegible] [illegible] with you. It is quite uncertain where I may be [illegible] next month, whether in Montgomery County or [illegible] Alabama, [illegible] [illegible] will [illegible] [illegible] [illegible]

[illegible] Chestnut Street, Philadelphia, [illegible]

[illegible]

[illegible]

[illegible]

[illegible] is offered at $[illegible]
and the kitchen is in the house
[illegible]
[illegible] is offered at $[illegible] a year and
[illegible] floor and a [illegible] No. [illegible]
[illegible] house of [illegible] stories
[illegible] No. 1314 Spruce Street, [illegible]
[illegible] $600 and [illegible]
[illegible] kitchen [illegible]
[illegible] $[illegible]
[illegible]
[illegible]

[illegible] fifty cents a day, or [illegible] hundred [illegible] in a [illegible] day a hundred and fifty [illegible] in [illegible] perhaps be a round [illegible] I think you [illegible] [illegible] more than if you had a house [illegible] like one of the two first mentioned [illegible] Street. I would like to know your [illegible] as it is hardly worthwhile for me to [illegible] definite about your [illegible]. It is not to be supposed either that [illegible] remain vacant for a couple of [illegible] so [illegible] think very closely if you do not [illegible] There seems to be some difference of opinion [illegible] Hunt will go [illegible] much; at least one of the houses [illegible] would do. In other respects nothing would be lost in taking a house some [illegible] before you come [illegible] (except the uncertainty you may have about [illegible] that you may wish for [illegible] because you would be likely to have [illegible] if any you came in [illegible] July; so that it would be unoccupied the longer at the end of the time you take it [illegible]. Unless you think [illegible] of these houses [illegible] very good chances not to be [illegible] of any on account of their being in [illegible] neighborhood [illegible] you will, it might perhaps be as well to [illegible] the matter [illegible] for a few weeks, until you are [illegible] to make a decided [illegible] [illegible] There is no room [illegible] provided [illegible] and as you would like; and [illegible] it might be a chance to match at. There now [illegible] on 34th Street are perhaps a good [illegible] for the rent seems low for houses of that [illegible] they have a great many rooms [illegible] but [illegible] large ones. The one in Eighth passed has a dining room and kitchen [illegible] towards the [illegible]; the one here is in towards the North. They are very [illegible] but perhaps you do not like the neighborhood. And then if you do not need so many [illegible] still you seem likely [illegible] to spend more on a suitable house elsewhere; then, as the rooms are small you [illegible] perhaps have to spoil your carpets by cutting or filling them down [illegible]. The [illegible] St. house would be near the Hoffers and Isabel Parrish and [illegible] [illegible] but the Fifteenth St. one would be near the Turnures, the [illegible] (in) and St. Mary's School and Music teacher. Perhaps some difference in the [illegible] may weigh with you, after they are looked into. If you think [illegible] looked into right away.

With my best love to the girls, believe me as ever

Your affectionate [illegible]

Benj. Smith Lyman.

135 South Fifth Street, Philadelphia, 13 Aug. 1869.

Dr. Lesley, Esq.,
Columbus, Ohio.

My dear Sir:

Your favor of day before yesterday is most welcome; and I am very sorry to learn by it of the loss you and your family have met with in your pleasant home. The accounts you give of your eyes also fill me with regret; and I trust that they will now continue to improve, and that you will for your determination not to go to Northampton this summer, may I not hope that you will reconsider it, as there are still some weeks? I had yesterday a letter from Mr. Kirkham in answer to one I had written to him of the 6th, to hold the meeting there; and he said they all hoped you would come. He says you and your wife are now alone; I am sure she would add her pleasant entreaty if you could bring her along with you. So, do think the matter over, and if possible change your mind. At any rate, don't fail to spend some days at Northampton after you come. If you withdraw from the Academy as you think of doing, the Committee will be very sorry, and would no doubt much rather have you continue a month or two longer, giving, leave for vacation as you find it. The Committee of Northampton meeting will be very small, as most of the members are absent from the Academy; and some fellow members will be very sorry not to see more than ever the complete breaking up of the Academy. It cannot be retrieved by such numerous withdrawals of the weightiest members. I believe even Prof. [illegible], who helped you with the Academy, intends to withdraw, at the next meeting in Washington, because so many things are going wrong.

Should I ever pass anywhere within a considerable distance of Columbus, I shall certainly give myself the pleasure of calling upon you there; and I hope for that very reason that my business may some time take me in that direction.

Mr. Lesley, I think, will be down to the meeting at Northampton, and even first, indeed, to go to the meal before next week. He would also be delighted to see you.

Till nothing, then, but you will come to Northampton, I remain

Very affectionately yours, Benj. Smith Lyman.

135 South Fifth Street, Philadelphia, May [illegible]

Wm. Allen B. Coleman, Esq.
New York.

Your favor of the 8th came duly to hand. As I gave the long and tedious of the Account you had handed the Union Gas Company, but it seemed to him that it will be better that it be not approved of by a board of directors and the payment ordered, as was for the [illegible] by the president. In point of time nothing can be gained by any steps taken before the fifteenth of September, [illegible] it will be well that the matter lie until the meeting of the Thursday at hand.

In telling about his taking a director's [illegible], he said he [illegible] Company, which for [illegible], and [illegible] that, referred often [illegible] to compensate him for his legal services.

I may possibly leave town on Tuesday or Wednesday and [illegible] be at the meeting of Thursday, but in that case [illegible] you have [illegible] certainly before the time comes.

Very truly yours,

Geo. Smith Fisher.

[illegible]

[illegible]

My dear [illegible]

[illegible] and I am pleased [illegible] will be [illegible] now. [illegible] Reading of [illegible] [illegible] still live. It would [illegible] you [illegible] and you might find an [illegible] [illegible] would be [illegible] Northampton [illegible] have a good [illegible] [illegible] [illegible]

[illegible]

[illegible]

[illegible]

social, comfortable &c.

I have a letter from [illegible] stating that he is
[illegible] Brighton from [illegible] and intends that he will
[illegible] or for the [illegible] as his infirmities prevent his going
[illegible] to work [illegible] as for [illegible] he would
be [illegible] if he could travel [illegible], which he cannot
[illegible] spring; I should express great regret at [illegible]
[illegible] he says in [illegible]. If you go to Brighton for pleasure
[illegible] your health, I [illegible] and long to see you [illegible] that
[illegible] long [illegible] himself [illegible] all your family
[illegible] of you [illegible] affection and regard. He
[illegible] so have been so weak that he has had to give
[illegible] for some months [illegible] to draw [illegible]
[illegible] that he will avoid [illegible] great difficulty
[illegible] thing if it would be an inconvenience to [illegible]
[illegible] he had within a week [illegible] his address [illegible]
[illegible] him; [illegible]

I write again in hopes that he might change
[illegible] and go [illegible] and [illegible]
[illegible] the [illegible] he [illegible] [illegible]

Dear [illegible] Flaxman

I think [illegible] pleasant
[illegible] for Mr. [illegible] and [illegible] that
I have not [illegible] for [illegible]
him your [illegible]
that I will be there, [illegible]
Flaxman is my [illegible]

Yours affectionately &c. Benjamin Haydon

135 South Fifth Street, Philadelphia, 16 Aug. 1869

F. N. Delano Esq.

No. 57 Broadway, New York.

My dear Sir:

Mr. Levy writes me today that there will be evidence before the twenty-fifth of September, so that there is no necessity of a deposition against the U. P. Company; and that if the deposition on or before the tenth of September it will be.

I expect to be here on Thursday, and can be at your office.

Very truly yours.

Benj: Smith Lyman.

135 South 3rd St. Philadelphia;
8th Mo. 1869.

Prof. J. P. Lesley.

The bearer of this is my excellent friend Mr. Felix Lucas who has just come to Paris to settle in America. He is the [illegible] of that interesting little book the Petroleum Hand-book, and of some brief notes in regard to certain American rock oils, an extract from the proceedings of the Philosophical Society that was presented by you to library of the American Philosophical Society a few months ago. You will find in him a most agreeable gentleman, well informed in his [illegible] and general matters; and any attention you may be able to show him will be reckoned an especial favor by

Yours very affectionately
Benj. Smith Lyman.

[illegible]

[illegible]

Dear Sir:

[illegible]

Philadelphia, [illegible] 1869.

My dear [illegible]:

[illegible] bearer of this is my friend [illegible] Mr. Philip [illegible], a French civil engineer, [illegible] lately [illegible] in the auditing of the excellent bill [illegible] Fidèle du Travail that you were reading last summer. You will find him a very gentlemanly and [illegible] man with [illegible] and that he has come to this [illegible] to [illegible] American [illegible] [illegible] to be alike [illegible] [illegible] to be also [illegible]

[illegible]

[illegible] will [illegible]

[illegible] will [illegible] are that [illegible] Sarsaparilla.

[illegible]

[illegible] 1848

My dear sir:

[illegible] Rhode Island [illegible] not [illegible] being here. Afterwards [illegible] Treasury [illegible] called.

I went [illegible] Philadelphia [illegible] afternoon [illegible] that the meeting [illegible] adjourned until Friday [illegible] this [illegible] stated [illegible] as you desire. Mr. [illegible] the letter [illegible] President and Directors of the U.S. Company. [illegible] day [illegible] the [illegible] having an interview [illegible] Mr. [illegible] from [illegible] Wallace [illegible] Mr. [illegible] Clay, and [illegible] good [illegible] his [illegible] for his wife and children [illegible] very painful feelings [illegible] five [illegible] father [illegible] good [illegible] The night [illegible] was [illegible] passed in [illegible] money, except that he was a little [illegible] on the [illegible] land [illegible] the [illegible] and [illegible] a little money [illegible] They will [illegible] forever that they can [illegible] without money, and [illegible] needs [illegible] then he [illegible] at least a part of the [illegible] they owe him. But he is [illegible] it is a matter of necessity with him [illegible] money, [illegible] place on [illegible] for [illegible] and [illegible] that it will be paid some time will not [illegible] his family will [illegible] good and [illegible]. He says [illegible] not if some of the [illegible] will be [illegible] money for the next [illegible] (or [illegible] weeks [illegible] if need be) as was done once before in the [illegible]. I find from the inventory that there is of Wrap. cost from 1824 [illegible] lbs., [illegible] at [illegible]; of [illegible] 5782 lbs., valued at [illegible]; and of Wrap. wrapper [illegible] 450 lbs., valued at $88.75 [illegible] $1.85 [illegible]. His plan seems [illegible] and [illegible] [illegible] will [illegible] [illegible] the letter, [illegible] until Saturday [illegible]

[illegible]

[illegible]

[illegible]

Girard Life & Trust, Philadelphia; [illegible]

[illegible] Esq.
No. 57 Broadway, N. York.

Dear Sir:

Your telegram this morning came duly to hand, and I [illegible] the meeting of the Union Car Company [illegible] the minds of the [illegible] kept at two o'clock. [illegible] Philadelphia [illegible] of the stockholders was [illegible] Lower [illegible] and we said nothing about [illegible] one [illegible] I suppose we have adjourned. Mr. Power [illegible] this morning, and said he [illegible] for the appearance [illegible] of the stockholders and were [illegible] quite ready to give the absence from town of one of the parties interested. Mr. [illegible] an adjournment for a week in case no word should come from you. I told him that your first question was an adjournment until the 8th of October, as you were away, and that matter will be decided with him. He agreed very cordially that Mr. Porter [illegible] the settlement paper before it is finally submitted to their and their attorneys, as they may bring you to the appointment [illegible] if any change should be desired on [illegible] the paper [illegible] and agreed to it.

Very truly yours.
Benj. Smith Lyman.

[illegible] Philadelphia, 27th Aug. 1869.

Dear Mary:

[illegible] day before yesterday has come duly to hand. I [illegible] attention [illegible] the circumstances of the [illegible] with which [illegible] company. [illegible] is [illegible] much duller than in the winter, so many of them are gone away to enjoying vacations and [illegible] from the [illegible] the advertising to fine here is the scarcity [illegible] thought, and if you have doubtless [illegible] we had no rain here [illegible] for [illegible] days. The rain [illegible] and the [illegible] and there [illegible] place in [illegible] [illegible] and [illegible] [illegible] and [illegible] [illegible] [illegible]

[illegible] I have come to wish I could remember that it will be quite different from what it was when first approved of and much better. [illegible] I forgot to convert for it, and have found it quite [illegible] [illegible] to write a description of it with all its variations. [illegible] [illegible] [illegible] a good title before the instrument will be really [illegible], however. [illegible] the senior partner of the instrument maker continues to [illegible] well for the junior to explain it to him and get his agreement to [illegible] the making of it under the terms I proposed. —

[illegible] the author of the little book you began to read at Chicago, [illegible] arrived here ten days ago. He has come to America [illegible] going to settle at first in Toronto, but he will nothing [illegible] and Hilbert to come in until next year. He is a very nice [illegible] and as he expects to be at Northampton during the meeting of [illegible] I gave him a letter to Sister who will find [illegible] a most agreeable acquaintance. I was afraid [illegible] not be able to introduce him in person, as I should very [illegible] have done; and I see now no prospect of doing so. [illegible] English quite well already, and I believe he has [illegible] years declared his intention of becoming an American citizen. [illegible] seems to be enchanted with this country, in fact almost to [illegible] everything through rose colored glasses. After he had gone from here [illegible] Meeting (where, I see, he heard a paper) I had a chance to practise [illegible] one day with a young friend of mine from Sandy Hill, [illegible] from Scotland, who also came to settle in America, and with a [illegible] opinion of it. — Mr. Hoffer has had me dine twice at his [illegible] within a fortnight and has stuffed me with vegetable [illegible] fruit, and I helped him buy and hang a large map of the Mediterranean [illegible] of his dining room. He and his wife seem very well [illegible] down [illegible] the table.

Your affectionate Cousin Benj. Smith Lyman

[illegible]

[illegible]

[illegible] glad to learn by your favor of [illegible] has been so fortunate as to find with Mr. A. Newell. He pay, as you say, is [illegible] and will [illegible] familiar [illegible]. Mr. Bal has been acc[illegible] [illegible] with him a pay you [illegible] [illegible] [illegible] another

I am [illegible] received a [illegible] the Construction of these maps of Europe, I shall [illegible] in the Economic Geographer, with view to [illegible] Time. Surpe[illegible] [illegible] the [illegible] meeting of the Board of Academy of [illegible]

[illegible] you [illegible] find your life of Wellington [illegible] and your work [illegible] and [illegible] your [illegible]. [illegible]

[illegible] 1[illegible] Aug. 184[illegible]

Mrs. [illegible]

Milton Hill, Mass.

My beloved [illegible]

[illegible] came duly to hand [illegible] I [illegible] in [illegible] houses, and [illegible] all [illegible]. I did not expect [illegible] I thought from what the lady said [illegible] you [illegible] him he would satisfy you [illegible] [illegible] that you still wished to have it [illegible]. As the first floor it has two rooms [illegible], on the left of the front door [illegible] [illegible] on the right of the front door [illegible] [illegible] [illegible] with a small [illegible] [illegible] the big room. In the third story [illegible] [illegible] front door and behind [illegible] [illegible] [illegible]. There are [illegible] [illegible] [illegible] the third story [illegible] [illegible] and third story have fireplaces, the big one in the second [illegible] the first story have fireplaces [illegible] [illegible] [illegible]

[illegible] Fifth Street, Philadelphia, [illegible]

Prof. S. S. Haldeman,
Columbia Pa.

My dear Sir:

I read with great interest and pleasure the [illegible] you were so kind as to give me the other day; and am [illegible] you mean to give the world a dictionary [illegible] edition by [illegible] it in a little different. One little class of omissions in our dictionaries has struck me, [illegible] lined by you; and that is the names of the letters. [illegible] the [illegible] is not a word, as much as the name [illegible] meaning [illegible] of any kind, is a word. [illegible] certainly as much as Alpha or Omega, both [illegible] in and [illegible] gorgeous. [illegible] is given in our dictionary [illegible] [illegible] a [illegible] is not given. Still more is given, [illegible] M. [illegible] in one of our dictionaries. The plural of [illegible] is in [illegible] as sometimes the word is "[illegible]". If [illegible] the neighbor would by analogy make the plural. [illegible]

I would be much interested in the [illegible] of the [illegible] School and Scholarship [illegible] [illegible] in that [illegible] I should [illegible] [illegible] will be [illegible] in the [illegible].

Very truly yours, [illegible]

881

The Sisters Conference Convent of Our Lady

TOS

[illegible] Philadelphia, [illegible]

[illegible]:

I am [illegible] by your favor of last Thursday that Father has been ill. I am very glad however that [illegible] quite well [illegible] I hope Father had a pleasant visit at Philadelphia and [illegible]. He is a very nice man and I think you will find pleasure in his acquaintance and he [illegible] will no doubt be very much pleased [illegible] most of his adopted fellow-[illegible] [illegible] from which he has been [illegible] [illegible] [illegible]

[illegible] general interest to be noticed, [illegible]
[illegible] the [illegible] as well as the [illegible]
[illegible] as well as the [illegible]
field [illegible].

[illegible] Mr. [illegible] and [illegible] and [illegible]
by Colin [illegible] [illegible] parlour window
[illegible] and [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] [

Easy Rules for Astronomical Refraction.

Benjamin Smith Lyman.

In using the solar compass as well as other astronomical instruments the refraction of the atmosphere must be taken into account as changing the apparent place of the sun or other heavenly body. In the zenith the apparent place of the body is not affected by refraction, but everywhere else it is usually above the true place, little near the zenith, but more and more towards the horizon, and some thirty five minutes at the horizon. The amount of displacement changes so with changes in the weight and heat of the air as shown by the barometer and thermometer. Near the horizon the refraction is great and changes very fast with a small change of the true height or altitude, because the rays of light then pass for a greater distance through the air, and through much of it quite near to the earth's surface, they are gently deflected to change from variations along their path in the weight and heat of the air, which are clearly quite unknown. Hence astronomers say that no table of refraction can be depended on within five degrees of the horizon, although tables are given all the way from the zenith down to the horizon.

It is customary to calculate the refraction for any given height of a heavenly body and for any state of the air by means of the tables and by complicated formulas. But for the solar compass, which has no means of marking the refraction nearer than to half minutes; and, indeed, for sextants or other instruments that do not read closer than to five seconds, two or three very simple rules are as good as the tables for all heights above three degrees and a half; and observations should not be made lower than that, at any rate. These rules are very easy to remember and by them the refraction can readily be calculated in the head.

The first rule is for the mean refraction, that is, the refraction when the barometer is at thirty inches and the thermometer at fifty degrees, Fahrenheit: Add one degree and three quarters ($1^{\circ}.75$) to the true altitude, and divide sixty-eight degrees (68°) by the sum; take one half ($\frac{1}{2}$) from the quotient, and the remainder will be the number of minutes of mean refraction. For example, to find the refraction for a true altitude of seven degrees and fifty-eight minutes:

$$\frac{68^{\circ}}{7^{\circ}58' + 1^{\circ}.75} - \frac{1}{2} = \frac{68^{\circ}}{8^{\circ}.75} - \frac{1}{2} = 7 - \frac{1}{2} = 6\frac{1}{2}:$$

and the refraction is six minutes and a half, exactly as given in the table of refraction in Chauvenet's Astronomy (1863). With an instrument like the solar compass that marks the refraction only

The elementary relationship of refraction is very simply given if we consider rays and for now ignore the fact that the process of refraction and of compensation is gradual. Imagine a prism, lens, mirror, which has the property of just bending the refraction rays so that small incident, for instance or other incident rays and colours from infinite distance, say or close by simple rules are so good as to be able for all keeping where the degree should be kept and refraction should involve made lines from, of course, lines rules are very easy & necessarily and by those of refraction can easily be taken into in the book.

The point that is for the common refraction, that is, the refraction when the transmitted is at right angles and the there are perfect degree, therefore lies: "will our degree and this particular (67) of the lens a lesson, and should always keep degree (67) for the same; that are half (½) degree of particular and the transmitted will be the transmitted of transmitted of degree refraction. Therefore, if and the refraction for a lens is half of degree degree and perfect degree:

$$\frac{\sin\theta'}{\sin\theta} - \frac{1}{2} = \frac{\sin\theta'}{\sin\theta} - \frac{1}{2} = \frac{1}{2} - \frac{1}{2} = 0 \text{ ½};$$

that the refraction is very minute and a half equally on prism in the table of refraction in thousandths (670). And the transmitted lies the side degree for refraction and

to the nearest full minute the whole number of the quotient will simply be taken as the refraction; as, seven, in the example just given. For, plainly, any quotient between seven and eight would answer to a refraction between six and a half and seven and a half, that is, in a round number to seven.

The following table, chiefly for every odd half minute of refraction, shows the altitudes down to two degrees for which the amounts of refraction are calculated by the rule, and the refraction for the same altitudes by the table, and the difference between the two, or the error of the rule:

True Altitude	Refraction by rule	Refraction by tables	Error of Rule
90° 0′	0′ 14″·4	0′ 0″·0	+14″·4
68 0	0 28·5	0 23·6	+4·9
66 15	0 30·0	0 25·6	+4·4
60 0	0 36·0	0 33·6	+2·4
57 0	0 39·6	0 37·8	+1·8
32 15	1 30·0	1 32·0	−2·0
20 55	2 [illegible]·0	2 31·0	−1·0
15 15	3 30·0	3 29·7	+0·3
11 51	4 30·0	4 29·2	+0·8
9 35	5 30·0	5 29·3	+0·7
7 58	6 30·0	6 30·0	0·0
6 45	7 30·0	7 31·0	−0·8

[illegible] will accordingly be taken as the refraction, as above, in the common first position. The [illegible] refractions above and below would [illegible] the refraction between the and, half and above and [illegible], in a mean number of above.

The following table, giving for every half-hour [illegible] refraction, shows the additions above & are required for the [illegible] [illegible] refractions are calculated by the table, and the [illegible] [illegible] the [illegible] [illegible] by the table, and the differences [illegible] [illegible], [illegible] [illegible] table.

Time [illegible]	Refraction by table	Refraction by table	Error [illegible]
70° 0′	0′ 14.4	0′ 0.0	+ 14.4
65 0	0 23.5	0 23.6	+ 4.7
60 15	0 36.0	0 36.4	+ 4.4
60 0	0 46.0	0 38.6	+ 7.4
57 0	0 57.6	0 57.6	+ 1.8
52 15	1 [illegible]	1 [illegible]	− 2.0
50 37	2 [illegible]	2 31.0	− 1.0
47 15	3 [illegible]	3 [illegible]	+ 0.3
44 71	4 [illegible]	4 [illegible]	[illegible]
42 35	5 [illegible]	5 [illegible]	+ 0.7
37 58	6 [illegible]	6 [illegible]	0.0
35 45	7 [illegible]	7 [illegible]	− 0.4

5° 48'	8' 30.0	8' 29.9	+0.1
5 3	9 30.0	9 32.3	−2.3
4 26	10 30.0	10 31.0	−1.0
3 55	11 30.0	11 29.5	+0.5
3 29	12 30.0	12 28.8	+1.5
3 6	13 30.0	13 27.2	+2.8
2 47	14 30.0	14 40	−10
2 30	15 30.0	15 19	−11
2 15	16 30.0	16 9	−21
2 2	17 30.0	16 58	−32

It is clear that for any altitude above two degrees and a half the rule is quite exact enough for any instrument that does not read closer than half minutes; and from three degrees and a half up to ninety degrees for any instrument that reads only to five seconds.

The second rule is for instruments that read to five seconds: The mean refraction between the zenith and fifty seven degrees (57°) of altitude is eleven tenths of a second (1.1) for every degree of distance from the zenith. For example, refraction at 75° of altitude is by this rule 18".5, or only one second more than is given in the tables; and this is the greatest error of this rule anywhere above 57°, and at 57° error is only 1".5

2°	48'	8' 30.0	8' 29.9	+0.1
5	3	9 30.0	9 32.3	−2.3
4	22	10 30.0	10 31.0	−1.0
3	33	11 30.0	11 29.5	+0.5
3	29	12 30.0	12 28.5	+1.5
3	6	13 30.0	13 27.2	+2.8
2	47	14 30.0	14 30	−10
2	30	15 30.0	15 19	−11
2	15	16 30.0	16 9	−21
2	2	17 30.0	16 38	−32

The third rule is for the allowance to be made for changes of the barometer and thermometer, and is simply: Add to the mean refraction at the rate of doubling for a rise of thirty inches in the barometer or for a fall of five hundred degrees in the thermometer. The refraction should of course be lessened at the same rate for a fall of the barometer or rise of the thermometer. The rule is exact for the barometer; and agrees with Chauvenet's table between fifty and a hundred degrees of the thermometer, but gives slightly too little refraction for a low state of the thermometer. This error however, at ten degrees below zero is according to Chauvenet's table only eighteen seconds for a mean refraction of ten minutes; and according to the tables given in Norton's Astronomy is only eleven seconds. At zero the error for the same mean refraction would be only fourteen seconds by Chauvenet's table. This rule, then, is quite exact enough for any instrument that does not read closer than half minutes, and in all ordinary weather and altitudes even for instruments that read to five seconds.

The following table gives the true and apparent altitudes down to five degrees for every odd half minute of mean refraction, that is, the altitude at which the amount of refraction changes from one minute to the next when only full minutes

The third rule is for the adjustment of the results for change of the barometer and thermometer, and is as follows: Add to the mean reduction of the pole of the preceding for a rise of half inches in the barometer, or for a fall of three inches; and deduct for a rise of three degrees of the thermometer, or for a fall of five degrees in the thermometer. The reductions should be taken at the nearest half inches or three degrees. The rule is exact for the barometer; and depends upon the thermometer being at a mean of 45 degrees of the thermometer, but gives sufficiently for little variations from a low mean of the thermometer. This rule, for the adjustment of the barometer, is not of great importance, as the adjustment should be made by the barometer itself; and according to the position in which the barometer is only allowed accurately. If you be given for the mean reduction would be not affected by the thermometer alone. This rule, however, is quite exact because for every inch of the barometer that alone will cause other than half inches, and half inches of the barometer make a difference for instruments that read a fifth decimal.

The following table gives the time and reduction of altitude when a fixed adjustment for every half inch of the barometer, that is, the altitude at which the reading of the barometer from one inch above the mean only half inch above

are taken account of, as in the solar compass:

~~Zenith Distance, Apparent Altitude, Equal Refraction.~~

Altitude.		Refraction	
True	Apparent	Equal	Equal minutes
90° 0′	90° 0′	0′ 0″	30
62 46	62 46	0 30	31
32 40	32 42	1 30	32
21 3	21 5	2 30	33
15 14	15 17	3 30	4
11 49	11 53	4 30	5
9 34	9 39	5 30	6
7 58	8 4	6 30	7
6 46	6 54	7 30	8
5 55	5 58	8 30	9
5 5	5 14	9 30	10
4 27	4 38	10 30	

The foregoing tables have been made from the table in Chauvenet's Astronomy with the help also of the other one given in Norton's Astronomy (edition of 1867).

135 South 15th Street, Philadelphia;

10 September, 1869.

Sun	Altitude	Time	Declination
79° 0'	79° 0'	0' 0"	80
65 46	65 46	0 30	8 1
52 40	52 42	1 30	13 2
41 3	41 5	2 30	17 3
30 14	30 17	3 30	20 4
21 49	21 53	4 30	22 5
14 34	14 39	5 30	23 6
7 38	8 4	6 30	23 7
6 46	6 52	7 30	22 8
5 28	5 38	8 30	20 9
5 5	5 14	9 30	17 10
4 37	4 38	10 30	

No. [illegible] Philadelphia, 13th [illegible] 1849.

To the Commissioner of Patents
Washington, D. C.

Enclosed please [illegible] an application for a caveat and [illegible] with the assistant treasurer of [illegible] Washington here.

I take the liberty of begging you to send me the last [illegible] issued by the Patent Office for the [illegible] taken in applying for patents; so that I may be enabled to make the drawing to be made and other particulars.

Very respectfully yours,
Benj. Smith Lyman.

135 Pa. Ave. Philadelphia, [illegible]

N. Edwards Esq.

Montgomery Co.

My dear Sir:

Your favor of the 5th of this month is at hand, & I will be much pleased to get at the same time.

The mineral is clearly nothing of value, merely a carbonate or black, with only enough carbon to make it the prevailing black color, and I think, therefore, — and from the expense of a chemical analysis — may still, from I infer having such an examination made, I will have to pay you, but will wait for further [illegible] that effect.

Very respectfully, yours,

[illegible]

185 South 7th Street, Philadelphia,
15 Sept. 1849.

Wm. Barber Esq.
No. 32 Bary Street,
San Francisco.

My dear Sir

The bearer of this is my friend Mr. Edward R. Hewe, late of Cambridge near Boston. He came home last Summer from three years study in the mining schools at Freiberg and Paris, has had some practical experience since that as a rolling mill superintendent in Ohio, and has now gone to seek his fortune in California.

If you could perhaps tell him of any opening, or put him on the track of finding one, or show him any other kindness, you would not only do him a favor, but would very greatly oblige

Yours very truly,
Benj. Smith Lyman.

[illegible] Street, Philadelphia, [illegible]

[illegible] St. [illegible]

Dear Edward: [illegible] you [illegible] had to come duly [illegible]
[illegible] quite and [illegible]
[illegible] and have [illegible] [illegible]
[illegible] we were nothing [illegible]
[illegible] . Short [illegible] maybe
[illegible] it is [illegible]
[illegible] and we have nobody will
[illegible] , [illegible] nothing of
[illegible] find in [illegible] place [illegible]
[illegible] find in your letter the name
[illegible] , and [illegible] will
[illegible] and [illegible] the [illegible]
[illegible] , also [illegible] , if he be [illegible] , he
[illegible] They are [illegible] good [illegible]
[illegible] mention. The name of the [illegible]
[illegible] acquainted with him, and I [illegible]
[illegible] him. He is a very good
[illegible] please remember me [illegible]
[illegible] down to [illegible]
[illegible] , and give his [illegible]
[illegible] , [illegible] [illegible]
[illegible] ; please give her my [illegible]

[illegible]

[illegible]

[illegible]

135 South Fifth Street, Philadelphia, 18 Sept. 1869.

Marshall P. Brownrigg Esq.

Sydney, Cape Breton.

Dear Sir:

Your paper of the thirteenth of last month is at hand & the criticism of Dr. Dawson and the Albany, which I have perused, as yours.

If my memory serves me right, the geological facts you mention are, well enough; except that the thin coals No. 28 & 29 may really expect no directly reports, for I believe I recollect, I believe of one or two quite thin really were cut across, for, perhaps from the place he gives it here. They [illegible] in the cliff along the north side of Bras d'Or Lake, the rendered. The dip of coal No. 29 would also be [illegible] if it extended north. – Still, I can hardly recommend publishing your criticism. Is it not perhaps, not merely [illegible] but taken back?

Hoping that business in Cape Breton may come up to your expectations next year, I remain

Yours truly,

Benj. Smith Lyman.

No. 1783 Green Street, Philadelphia, 16 Sept. 1869.

My dear Emerson:

The other day, on a piece of paper that came around a bundle, I came across the enclosed advertisement of a school soon to be opened by the Misses Mansfield at No. 1783 Green Street, Germantown. From the references given, so many of them Concord men, I thought it might be the young ladies who entered your school just after I left Concord, and one of whom I had the pleasure of meeting then two or three years ago. If it be really they, I should be very glad to renew my acquaintance with them and to make the acquaintance of their sister. Two young ladies so highly praised as these Concord ones were would be quite an acquisition to Philadelphia. It is often hard work to get started here as a school teacher, it being so by fashion here that when a reputation is once established in school keeping the school is overrun with applicants. The late Dr. Cleveland is said to have had but two pupils in his school here for several months at the start, and to have turned away many of them.

The schools have all been reopening this week, and people are getting back to town. I followed some of your summer rambles by your letter to the Republican, and by your letter from Prairie Head (in which I appreciated your joke of leaving forth instead of spelling it) and the letters from Plum at the time of the Fire. [illegible]

tried your commendation of the assignment of Library treatment, as Chairman of the Committee, and though I was well enough satisfied with the results I could not agree with you in approving of the way in which I was treated. It seems to me that a Committee might look at the papers or abstracts of them before they are read, as the Constitution and Laws require, and to reject those that are unfit to take up the time of the meeting. This neither the Chairman nor the author to have it managed as I have managed that affair, and it takes up more of the time of the meeting than it would do if managed the other way.

We had quite a Humboldt celebration here last Monday and Tuesday. Tuesday evening there was a concert and speechmaking in German and English in the Musical Fund Hall and the whole was, it is said, a complete failure in every respect. On Monday morning they laid the cornerstone for a monument in the Mount Park with the helps of the Masonic order. There was a great number of people at it, but only very few could get a sight of the ceremonies, because they took place on the top of a hill, and those who stood in the front rank hid every thing from those who stood behind. There was also a speech in German there and another one in English, with parades. But the great event was the Volksfest at Engel and Wolff's Farm, a large beer garden, out beyond the park. The place was very full of folks and they were very festive. Very many went here and in the park deemed it hardly worth while to have very little to do with the help of Humboldt, but were determined to have a good time in the fine weather. Among the rest I and several of our Academy members, and we cordially united with four or five of our Academy members, and we cordially united in dispensing that and one or two other learned societies represented there, as far as we could by our carriages.

I suppose you are as much overcome with work as ever. Do you live in the same house this year as last? I was glad to hear from Mr. Hampton the other day that Mr. Lawson said he had had a very pleasant time with you; and I am very much obliged to you for it. He is a very good fellow indeed as you see [illegible] understand, I believe. He is [illegible] of the most high [illegible] and this [illegible] very [illegible] gentleman.

135 South 13th Street, Philadelphia, 19th [illegible]

Dear Mary:

I wrote an email in your favor of last week, but [illegible] the parties, either [illegible] doings at Northampton is very [illegible] exciting. The summer is so hot, and you know that it seems [illegible] seem dull in comparison; no wonder those who can try to [illegible] part of the [illegible] city. The city here is dull [illegible] through the summer, and the return of the summer pleasures has just begun to enliven it again. The [illegible] and other public entertainments have begun to take place again. The active politicians are beginning the hard work of their election campaign for the election of next month, and the streets are now and then [illegible] with torchlight processions, and there are meetings and speeches almost nightly. The horticulturists and [illegible] (or pomologists as they prefer to be called in [illegible]) have had a great exhibition of fruit in the Horticultural [illegible]. They wound up with a grand reception on Friday evening to which the ladies generally had a couple of tickets through the kindness of Dr. Elwyn by [illegible] which they (of course they did) and they attended [illegible] in force. The hall was handsomely trimmed [illegible] and the tables [illegible] fruit and oysters [illegible] and cattle. [illegible] the main floor where the tables were [illegible]

[illegible] were [illegible] beneath along the sides of the room. [illegible] the clock upstairs [illegible] began, and presently the [illegible] disappeared from the [illegible] quick motion; such scrambling and greediness! As I had bubbled, when a comfortable [illegible] was not so empty as it seemed to be. After tea [illegible] lady [illegible] was presented with a little basket of fruit [illegible] practically the men grabbed as many oranges as they [illegible] all. It seemed however only one for each lady, but [illegible] the gentlemen, and so it intimated at the [illegible] Altogether the [illegible] and [illegible] and [illegible] and

1017 North Fifth Street, Philadelphia, 19 Sept. 1869.

Warren Delano Esq.

No. 55 Broadway, N. York.

My dear Sir:

I agreed yesterday to set out day after tomorrow, Tuesday, for Lowell, &c., to be gone two or three weeks possibly longer. If you consider it important, however, that I should be here on Thursday, so as to help elect a director in Mr. Sotter's place, it is quite possible that the journey may be delayed until then. In that case, please telegraph me tomorrow, and I will see if it can be arranged so. I shall try to see you at any rate in New York on Tuesday, and will take or write me the balance of money left by you in my hands, as you may wish to see it before I come back.

It is still possible that I may not go to New York until Wednesday, and also quite possible that the whole trip beyond there may fall through altogether.

Two writs have been served upon me summoning the Union Car Company to appear in court the third Monday of September to answer claims made by your brother and Mr. J. J. Badger. Of course I shall make no appearance, though I know nothing about the details of Mr. Badger's claims. Probably the brother has seen that that is all right. Very truly yours, Benj. Smith Lyman.

Arch. Mitchell, Philadelphia, Feb. 1. 1879.

Dear Sir,

Dr. Williamson, N. Y.

My dear Sir:

I regret exceedingly to return the copy of Commentary sent by Dr. Williamson, after you had so kindly loaned it. If you consider it independent reviews, that I should be an Amateur, or an actually elect a director in the Office, it is perfectly well that it journey onward at once. In the interim, please telegraph me, and I will do it when it arrives. Shall be pleased upon returning such in other shape as Dr. Williamson, and will be at liberty upon receipt of copy in my hands, as you may wish, since it depends some [illegible].

Also will perhaps that Dr. Williamson, [illegible] Dr. Williamson, and also [illegible] perhaps that it could be [illegible] the many fall [illegible] [illegible].

Has not one been received upon me [illegible] the Co. Company & [illegible] in Court & [illegible] [illegible] [illegible] [illegible] made by you [illegible] [illegible] J. J. Hodge. If [illegible] I shall make no [illegible], that [illegible] [illegible] [illegible] [illegible]

[illegible] Street, Philadelphia, [illegible]

Messrs. [illegible] & Co.
[illegible]

Gentlemen

[illegible]

[illegible]

[illegible]

242

Montreal, 2 October, 1869.

To Mr. Boxler,
Letter carrier for Fifth Ward No. [illegible]

Dear Sir:
Please cut forward my mail matter my larger this place, until [illegible] it at No. 135 South Fifth Street.

Respectfully yours,
Benj: Smith Lyman.

Montreal, Canada: 21 Oct. 1889.

My dear Santom:

Your favor of the twenty-eighth ult. with Bliss's letter enclosed only came to hand on my arrival here yesterday. I am delighted [illegible] for you [illegible] in writing to Bliss about me. I am [illegible] tell you [illegible] would like me to accept the invitation [illegible] if [illegible] it should only be given; but perhaps I can [illegible] on getting home to Philadelphia. On some account I'd [illegible] rather [illegible] it is not altogether [illegible]. As for the [illegible] far more of it than I went already, for [illegible] it is a [illegible] among many people [illegible] anyone be a professor, and I [illegible] to it in some journeys [illegible] etc. Perhaps the infliction [illegible] more tolerable if I were [illegible] the natural holding of a professorship; all in, it is extreme, amazing: "Professor, do you think so [illegible]?" "Professor, this;" and "Professor, that." [illegible] part the [illegible] in [illegible] ways. As for the Illinois Industrial School I had [illegible] a hand-bill before specific from Mr. Fa[illegible] showing a [illegible] "Special visit to Illinois" [illegible] Industrial University [illegible] is a grand idea which I shall be allowed to establish [illegible] in the future, by lecturing sometimes on the history of industrial [illegible] I should prefer a professorship of geology or of [illegible] might, perhaps, have a professorship of [illegible] and [illegible] would be useful to me [illegible] the proper going [illegible] Dr. They business prospects work a [illegible] just now but [illegible] will amount to is need to tell. — [illegible] I have a letter from [illegible] on his way to Madison, to inquire of [illegible] he had had in mind you and your kindness to him [illegible]: When you write to your friend, tell him my best regards, and ask

[illegible] Boston [illegible] Philad.a. Jadd.

[illegible] Reverend [illegible] address them, [illegible] left Philadelphia a little over [illegible] Lawrence [illegible] Riviere du Loup. [illegible] Sailed down the [illegible] forty miles [illegible] River, [illegible] Bay and on the St. Lawrence [illegible] Riviere du Loup [illegible] Rivière Ouelle [illegible] very interesting [illegible] life and new people we met with [illegible] The people of all the [illegible] French, although many, perhaps [illegible] English [illegible] places we [illegible] at each [illegible] Lind, scattered [illegible] villages [illegible] St. Marguerite River one compound family of seventeen [illegible] children [illegible] grandchildren, [illegible] twenty seven miles off on the [illegible] upper, and [illegible] St. Lawrence: while we [illegible] young man of the family [illegible] River. They [illegible] weighing [illegible] pounds [illegible] pounds. [illegible] paddling [illegible]

Montreal, Canada, 21 Oct. 1839.

R. D. Wood Esq.

No. 400 Chestnut St. Philad.

My dear Sir:

As you may perhaps be impatient to hear the result of my trip to the lower St. Lawrence, and as I may not reach Philadelphia until next Monday or Tuesday, I take the opportunity of saying that Mr. Vigier, Genl. Averill and I got back safely yesterday after visiting the point on the North shore of St. Lawrence near the Point St. Charles which you sent me to examine. The ore there proved to be magnetic iron ore apparently quite pure, but so thinly sprinkled through the rock as to be unquestionably quite too poor to work. It occurs in large fissure veins made up almost wholly of a reddish feldspar and is scattered through this vein rock in little balls or crystals as large as the fist or less, in a very few places thickly enough scattered for a couple of feet to be worth working. Mr. Vigier's impression had been that this ore indicated the probability of a much richer deposit below; but there is no reason to suppose that it would ever grow richer below any more than poorer. Indeed,

Washington Branch, Aug. 18th 1848.

R. S. Mott Esq.

Mr. Geo. Chambers of Philad.

My dear Sir,

As you seem desirous to supplement from the Academy any thing which the Academy, and as I may not visit Philadelphia until most probably a month, I think it necessary to forward the Mr. Vigers, Sand Hewell and Yellow [illegible] which [illegible] the point on the [illegible] of the Museum was [illegible] Mr. Vigers [illegible] you [illegible] [illegible]. If on the [illegible] is supposed [illegible] [illegible], for as [illegible] [illegible] [illegible] the work on the [illegible] [illegible] [illegible]. If [illegible] is [illegible] [illegible] [illegible]

large the ore at many different levels through a distance of some seven miles and some of the richest points were at the higher levels. But throughout all that distance the vein (varying) retained its general character very fully and a dozen entire yards of it in one place would not differ much in richness from the same bulk in any other, and there is not the least reason to believe that there would be any greater difficulties in digging downwards. It is but just to Mr. Brigham to say that from the moment he learned from me here, four weeks ago, that the vein was not at all likely to grow richer in descending, he thought it was useless to visit the place; but Lieut. Averill thought otherwise. — I can give you a more formal and full report on my return to Philadelphia, if you wish.

We spent but twenty-four hours at that place, but I was taken to visit a large bed of ore at Seven Islands Bay, and one on the St. Margaret River as well as to the Moisie Iron works. These ores are strongly attracted by the magnet and seem to be pure magnetic iron ore, indeed that at St. Margaret's River is a loadstone, but it has been said that the ore of Seven Islands Bay, or rather of Big Iron River one mile above its mouth in the bay, contains titanium in injurious quantity. I have samples of both that will prove your analysing if you should desire it.

We were much delayed on the journey in our wretched bill. Thousands of mosquitoes and sandflies. — I shall immediately today, but shall stop an hour or two at Col. Henry's on my way to it.

Very truly yours. Benj. Smith Lyman

[illegible] lived in Charleston [illegible] if he did not get well from [illegible] Medicine [illegible] Montreal not only was [illegible] Lyman [illegible] visits [illegible] to drive to the cemetery [illegible] cemetery among [illegible] Lyman's [illegible] occupied much [illegible] time. In going we to go to his house in the [illegible] we [illegible] that they were all alone [illegible] would come. We [illegible] in the carriage [illegible] the first evening [illegible] had come, to [illegible] did not succeed [illegible] will probably be here in [illegible] anticipated [illegible] shall not however be able [illegible] Mr. Robert Lyman [illegible] amiable wife [illegible] steamboat was [illegible] little Sir Harry & Thos Lyman [illegible] Montreal [illegible] almost becoming [illegible] being in [illegible] and [illegible] in the [illegible] Reactive [illegible] number of the French [illegible] all before [illegible] the Lion [illegible] without [illegible] mountain [illegible] passed [illegible] in another [illegible] the [illegible]. I had not before [illegible] Montreal and [illegible] that [illegible] Canning [illegible] I was much [illegible] I had had [illegible] education [illegible] cities in North America [illegible] I was surprised [illegible]

[illegible] Whitehall the lower people deemed to be there and is considerable [illegible] in; it [illegible] to be [illegible] of two thirds [illegible] which were [illegible] but they said only about one third. They [illegible] about [illegible] and fifty thousand for the population [illegible] City, but it is not a little place as so large. — Thursday afternoon I left Montreal by the Cars and [illegible] evening to the [illegible] by way of [illegible] Junction, where the train is ferried across the St. [illegible] It was early night when I reached Plattsburgh and I [illegible] right [illegible], soon after retiring, to sleep. In the morning I [illegible] through the little town [illegible] breakfast [illegible] the little steamboat for Port Henry, where I [illegible] at noon. The trip was a charming one; the weather was [illegible] but rather too cool to be comfortable on the deck; and the [illegible] leaves were just in their prime of beauty. The [illegible] may need be seen [illegible] at any season, but at this time [illegible] very magnificent [illegible] I was delighted that I had taken pains to see it by daylight. The lake in the northern part is pretty wide so that one does not see much of it closely at a time, but there are [illegible] that reach up to the surface and give variety to it. After [illegible] the [illegible] Mountains on the west look wild and [illegible] while the low [illegible] lands of Vermont on the east look [illegible] and charming as possible. I spent twenty [illegible] minutes [illegible] for the purpose of seeing the iron furnaces and mines [illegible] especially [illegible] the iron ore beds I had [illegible] in Canada. The night day, Saturday, was rainy and [illegible] was made less pleasing thereby, but in the southern end of the lake between Port Henry and Whitehall the shores are nearly [illegible] so that we could see very [illegible] well and in fair [illegible] the views were lovely, and the leaves brilliant. We stopped for a minute at Ticonderoga, but I did not land. At Whitehall we left the cars and took the train for Albany by way of Saratoga. It was dark before we got to Saratoga but I had some glimpses of the streets and houses there as we passed through. I slept at the Congress House, and took a train about half past ten the next morning for New York [illegible]. All the way from Montreal I met with the good attention and courtesy of conductors, [illegible] and [illegible] only after leaving [illegible] I had the first order [illegible] from a conductor and was [illegible]

I walked up from the Rectory to Algonac and arrived there just as they were sitting down to dinner. Mrs Lee and Emily Keating were there and came down to New York with Mr. Lelaus. They were very pleasant. Miss Sarah Hamilton was [illegible] visit to them, except Sunday afternoon or night and from the window I did so. The pictures are still there and effect fine in a dark or twilight. The library finished and looking very well. The children and all the house seemed in good spirits. [illegible] adventure [illegible] Albany [illegible] I saw last Sunday [illegible] the two little children [illegible] as happy as ever. Mary and Will are growing pretty. Mrs Hall seemed very well, [illegible] Dr Chuch. [illegible] and I and [illegible] Sunday morning [illegible] the Country looking very gloomy and the weather bright and clear. I had never had a Sunday morning so free before, always spent it in the city. [illegible] meadows, rivers and [illegible] all the way, and cause [illegible] by the railroad. [illegible] told me [illegible] been in the papers the Government [illegible] at Stockholm [illegible] 18 in New York [illegible] 12 September [illegible] and be [illegible] I have [illegible] read about it however from the Newspapers. There was a very unfeeling attack [illegible] and a very sudden and [illegible] to his family. Richard was expecting his mother and [illegible] moment by the Steamer Alleghania. I saw Uncle Edward a few minutes at his Counting room, and found him well. He said they were all well at home. Lots very busy employed in setting their house to rights. So I did not stay to go out there, but come home the same afternoon. Never found the [illegible] more comfortably established in their new house. There lives below them. Adams in [illegible] Street. The house is a little wider than the Adams and the front more handsome. The [illegible] lemons are also well and their [illegible] over. —— Mr. Hudson also [illegible] in a little [illegible] in Mobile. [illegible] give my love to all. Your affectionate Son Benj. Mulligan.

125 South Fifth Street, Philadelphia; 28 Oct. 1859.

My dear Mr. Deacon:

Your very kind favor of the fifteenth of last month came to hand just as I was setting out on a journey from which I got back two days ago, and I have had until now no convenient opportunity of answering. And now I hardly know what to say, for you speak of coming east this month, and the Friends' Yearly Meeting in New York seems to have taken already instead of this place next month as I understand from you it would be; I am sorry that you have as well forwarded the very little pamphlet, and that you will [illegible] the [illegible] is past, I am sure, he will be glad [illegible] you; and if I knew where you could be found during [illegible] As it is, I will enclose herewith a little [illegible] giving you to him, so that if you find it convenient to do so [illegible] to call on him, you will have no difficulty in making his acquaintance. — If you are [illegible] Friends' Yearly Meeting, as I suppose, you have probably met Mr. Carlson again; in that case he will be pleased, I know from what he has written since seeing you. He is a [illegible] — I thank you very much for what you say about my [illegible] apparatus. I do not know [illegible] you about it at Northampton or Springfield, and could scarcely have given you any idea of the [illegible] I must have been inventing this seems

[illegible] I have [illegible] been in the
[illegible] entirely out of [illegible] they would hardly
[illegible] in my description of it. As the [illegible]
[illegible] it is to have [illegible] of his property at
[illegible] rather to have [illegible] it speaks very
[illegible]. — I [illegible] that Mr. [illegible] let is still a bachelor
[illegible]. His [illegible] at the [illegible] was [illegible] very great, it is
[illegible] it was with them nothing, and his position enabled
[illegible] his living, and at [illegible] time to learn English
[illegible] become acquainted with [illegible] of doing work in
[illegible] region. So that it [illegible] on the whole a
[illegible] fortune [illegible] in until [illegible] something.

[illegible] has been [illegible] which I had
[illegible] believe [illegible] the
[illegible] has been a
[illegible] by in the geology
[illegible] Montreal [illegible]
[illegible] I had expected [illegible] Quebec is [illegible]
[illegible] Painter [illegible] wholly [illegible]
[illegible]. The [illegible] I visited
[illegible]. The railroad
[illegible] there we were
[illegible] a little [illegible] adventures, and as it was
[illegible] about. My cousin
[illegible] and a Montreal lawyer. Mr. [illegible]
[illegible] indeed.
[illegible] Smith Lyman.

Walnut & Eighth Street, Philadelphia,
22 Oct. 1867.

Dear James:

The bearer of this is my particular friend Mr. Felix Tonnel, lately of Paris, but now an inhabitant of Wisconsin. He is a civil engineer by profession, but has much general information, and you will find him a most agreeable gentleman. You will no doubt be especially pleased with his views in regard to French politics, as your prospects in France has already interested him. Any attention that you may be able to show him will be esteemed as an especial favor by

Your affectionate brother.

Benj. Smith Lyman.

[illegible]

[illegible]

Dear Sir:

[illegible]

[illegible]

[illegible]

[illegible] Street, Philadelphia, 28 [illegible]

Dear Sir:

My friend Mr. [illegible] author of "Notes on Navigation" an interesting work on the history of industrial labor, came to America from France & lived in America and settled in Washington. You may have heard of him. Washington. He has read your pamphlet on and he wrote me from Chicago (Feb) "I was delighted in Washington upon your pamphlet on the [illegible] never in my life heard with such enjoyment a book that so profoundly touching the [illegible] of [illegible] civilization is in the [illegible] philosophical & practical [illegible] subject. [illegible] I should be glad to meet him. He is a [illegible] and agreeable with a political [illegible]. He is probably in Washington now or will be there [illegible] but as I do not know his address I [illegible] you to call on him. I have [illegible] of sending him a letter [illegible] you will certainly take pleasure in [illegible] of one who is so much interested in your work. You will find him, I [illegible] an agreeable gentleman of much general information. Hoping to see you at Washington on Thanksgiving day, I am

Your affectionate brother,

Benj. Smith Lyman

135 South Fifth Street, Philadelphia · 29 Oct. 1869.

C. C. Gordon Esq.
New York.

My dear Sir:

Your favor of yesterday is at hand. – At Mr. Lee's Office I learned in his absence from Mr. Pauly that he had received from Mr. Thomas the contract of the European & N. American Railway Company, and that Mr. Gummey had consented to have a copy made of the deed of appointment. – Mr. R. C. Thomas is unwilling, he says now, to let the books of one company go out of his hands until he receives from you and me as auditing committee a certificate in writing that we are satisfied with his accounts. The company is engaging in so much litigation that he thinks this proper to secure himself against difficulties in the future, and his request strikes me as not unreasonable. He says however that he suggested such a course to you in a letter some days ago. Perhaps his mistake in crediting certain sums to Mr. Bruce that should have been credited to Mr. Evans may be reason enough for withholding such a certificate until he corrects the mistake. But his resignation might be accepted by a new meeting of stockholders or directors as the case may be, upon our report, such as it is, and the mistake corrected afterward. As the matter stands, unless we give a certificate Thomas will have nothing to show that he is not still secretary and responsible for the books, until our report shall be made and recorded at the next meeting. – He showed me an account of Mr. Powers in which it appears that Mr. Powers paid the Pavel ground rents of July 1868 and of Oct. 1868 and was disbursed therefor by Mr. Thomas, that is by the company. Thomas also says that Gummey told him the other day that one of these instalments was paid twice, by you as well as by Powers; but I fancy this is a mistake, as your payment may have been for January and April, 1869. I have been to Mr. Morris's office, but found no one there, and will go again. Thomas says he never paid any of the ground rents direct.

Since writing the foregoing I have been a second time to Mr. Dotterer's house in 418 Street and succeeded in finding him. He says it is now impossible for him to tell the number of the money getting ready to be paid; for the Sheriff yesterday seized on the personal property to satisfy the claim of H. H. Adams. Dotterer says the contemplation very much disconcerted him, and he could not work for thinking today, but he promised to come to city

3677

[illegible] Sixth Street, Philadelphia. Sept. [illegible]

C. C. Sherman Esq.
[illegible]

My dear Sir:

Your favor of yesterday is received. – My wife, [illegible] [illegible] [illegible]

in making himself personally liable to them for their wages. He says that something like a hundred dollars are owing to them in this office having paid seventy four dollars since the time of selling to Iran. He is highly indignant at this mode of dealing. Selants and intimated that others could play the same game meaning probably himself. He says that the last freight car went on Saturday to Long Island and the one that the Pierce had bought went at the same time. Mr. Dotten seemed to have had an interview with Mr. Cummings since the writ of attachment was served.

Very truly yours.

Benj. Smith Lyman.

[illegible] Philadelphia [illegible]

C. C. Gordon Esq.

New York.

My dear Sir:

[illegible] the State Attorney in Mr. [illegible] for the books and papers [illegible] in his office, he [illegible] would [illegible] attorney [illegible] very [illegible] the [illegible] after getting it proved advisable to [illegible] the books, and that could not be done today and I send you [illegible] the two books he gave me together with [illegible] and all the [illegible] by the Company, the Monitor [illegible] several insurance policies held [illegible] all [illegible] Office. The only thing [illegible] to me [illegible] office [illegible] I have [illegible] have it handed [illegible] for it if you wish [illegible] be put in the office of the [illegible] the personal property [illegible] Have sent me the certificate you [illegible] with his accounts, [illegible] he is now no longer Secretary. — I have been to [illegible] finding him, and [illegible] office [illegible] about the [illegible] I wrote you a letter [illegible] you received it [illegible] I told you that all the personal property of the [illegible] were under the control [illegible] and therefore [illegible] tell Mr. Potter the [illegible] at his house and [illegible] prevent the removal of [illegible] and that [illegible] necessary. Very truly yours, [illegible] Smith Ingersoll.

135 Pearl St. — Philadelphia, Feb. 1869.

C. C. Gordon Esq.

My dear Sir:

[illegible] copy is attached. — Mr. Cobb's and Jones' [illegible] all sent to you by express yesterday. Mr. Jones seemed pretty [illegible] to the action of the committee — I was not [illegible] that Mr. Cobb's letter [illegible] committee, and [illegible] taking [illegible] the [illegible] of attach[illegible] [illegible] served; for he quoted Mr. Gurney directly in one [illegible] to the effect: "Mr. Gurney says Mr. Blanc is [illegible] office [illegible] for he was already [illegible] by a friend."

Very truly yours,

Benj. Smith Lyman.

135 South Fifth Street, Philadelphia; 4 Nov. 1869.

Gen. Wm. S. Averell,
New York.

My dear Sir:

The cost of getting iron ores analyzed by my friend of whose I spoke to you would be, I find, twenty five dollars for each ore, that is, for each complete analysis, no matter how many bodies may be determined.

The cost of a report by me upon the Rapid River and St. Margaret's River ore beds that we visited would be a hundred dollars. Mr. Wood has not yet decided to order such a report on his own account.

Hoping to have the pleasure of seeing you here within a few days, I remain

Very truly yours.
Benj. Smith Lyman.

[illegible]

Mr. W. H. Howell,
New York.

My dear Sir:

The cost of getting them was analyzed by my friend [illegible] would be, I think, nearly five dollars per book or, taking you and complete analysis as matters now stand, it is determined.

The cost of a report by me upon the Indian Tribes and the Aboriginal Tribes of the United States would be a thousand dollars. Mr. Ford has only got the Indian book a little book in his own account.

Trusting I have the pleasure of seeing you here within a few days, I remain

Very truly yours.

Geo. Bancroft Lefevre.

[illegible]

Dear Hay:

[illegible] hand [illegible]

[illegible] getting on [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] Hay [illegible] on [illegible] Hay

[illegible]

[illegible]

[illegible] time after [illegible] and they are as well as usual.

Your respectly [illegible] daughter [illegible]

& an affectionate Father [illegible]

135 S. Fifth St., Philadelphia, 5 Nov. 1869.

C. C. Harden Esq.

Dear

My dear Sir:

Your favor of yesterday is at hand. – Mr. Lapp told me this morning that he had spoken to you that he would attend to the matter you entrusted to him, and would write you about it, today, or tomorrow. He has taken a copy of carefully the two points about the mangling machine but says that the machine is mentioned in the mortgage, and, in some cases where the machinery by Thomas has been declared a part of the premises, has been deemed to be covered by the mortgage. Find herewith essential documents & statements. – I have given Thomas a receipt by Mr. Cooper for $1,250 on account of the Powell ground rents due 1 Apr. 1868 and July 1 and 1 Oct. 1868 and of the Hare ground rent due 1 July 1868 together with interest on the same to 1 Oct. 1868 and interest on the amount then up to 1 Nov. 1869, the date of receipt. These sums are mentioned up in a letter from A. Thomas to B. B. Thomas, on the back of which letter the receipt is written; and J. A. Lawrence adds and tells me on 29 Jan. 1869 with an account of Powell's rent and the expenses in regard to the same ground rents by which it appears that $73.87 on half of the Powell rents due in addition to the $1,250 paid this year has not been done in satisfying the judgment, he gives no receipt for the rent. His receipt may be of service to Lapp in getting these judgments cancelled, after that you write. The ground rents for the three months mentioned in the receipt. – Mr. Thomas says the suit is not in his way. Indeed, he seems to regard it as until a small debt of ninety dollars to a Sec. maker, which he has obtained, be paid. The appeal was made by Thomas from the Alderman's decision which appeal was lost; but the time of the appeal during which the amount was required, and a friend of Thomas's a young man of this city became security for it, is no matter. Mr. Thomas would prefer to keep the case as security until the matter is settled and his friend be released. The whole cost of the suit, including the costs of the appeal, is about ninety two dollars. Mr. Thomas would be glad to have the case considered by Potter and Thomas on the ground of more work performed, the page was done by the chairman; it was done by others because the complainant would not pay the chairman for his work. Yours truly, James. Benj. Smith Lemon.

135 South Fifth Street Philadelphia, 9 Nov. 1889.

C. C. Gordon Esq.
New York.

My dear Sir:

Your favor of the fifth, mailed on the sixth, came to hand day before yesterday, Sunday afternoon, with the enclosed check for $205, the amount of wages due the watchmen. Yesterday morning I got the check cashed at a bankers, and paid the day watchmen, and in the evening paid the night watchmen. Enclosed please find their receipts for the same: P. Cavanagh for ninety dollars; J. McAtee for eighty dollars; and J. R. Dales for thirty five dollars. They were very much pleased to be paid, and seem quite contented and good humored.

I have seen Mr. Lyons this morning, and he says that Mr. Morris told him the matter of cancelling those old judgements would be all right. I left with him Lyons the receipt of Powers that I mentioned to you the other day, as Mr. Lyons thought it desirable that he should have it.

Very truly yours.
Benj. Smith Lyman.

365

35 South Fifth Street, Philadelphia, 18 Nov. 1869

Geo. Gordon Esq.
New York.

My dear Sir:

Your copy yesterday is at hand. Enclosed herewith please find the list of entry you ask for. You will find in it in pencil some things noticed for the first time at the time of the revision. I would suggest that in copying the smaller articles, tools and the little movables, be classified a little, even if the larger ones be not; for in making a critical examination time this would add very much to the convenience in checking them off, since such things get moved about from one room to another. If all the things of the same kind in the whole establishment were written down in the same place, it would be much easier to find them on the page when seen in any given room.

The eleven hundred dollars that Mr. Delano sent me five years ago and thirty three dollars and ten cents ($33.10) were used to pay off the judgement and twenty five cents to pay the broker's commission for cashing the New York check. The balance of $566.65 I returned to Mr. Delano on the 21 Sept. 1869, as I passed through New York at the beginning of my last journey. As I have no money of his or of the company in my hands, perhaps it would be best for you yourself when you see him to speak to him about paying those seven or eight ninety dollars due to the postmaster.

I expect to go to Massachusetts next Tuesday for a week or so.

Very truly yours. Benj. Smith Lyman.

[illegible] Street, Philadelphia, 10 Nov. [illegible]

Geo. [illegible] Esq.
[illegible]

My dear Sir:

[illegible] is at hand. Excuse delay with pleasure. Glad to hear from you at [illegible]. You will find in it a special some things material for publication after [illegible] [illegible] suggest that in copying the manuscript [illegible], [illegible] make [illegible] [illegible] a little, [illegible] [illegible] [illegible] a special [illegible] publication time. The world [illegible] [illegible] [illegible]

The Moisie Iron Works.

An account based on information taken on the spot in October, 1869, by Benjamin Smith Lyman.

The bloomary forge at Moisie is interesting from its being the northernmost iron works on this continent and from its depending for ore on the magnetic iron sand of the sea beach.

The works are at the mouth of the Moisy River on the north shore of the St. Lawrence near its mouth, some seventy miles west of Anticosti Island and fifteen east of Seven Islands Bay, and are in latitude about 50½° and longitude about 66°. The true spelling of the name Moisy (as seen on old French maps and in the Edits et Ordonnances du Roi) has been corrupted by the fishermen of the coast or [illegible] to Moisie, and the name of Moisie was given by the surveyors of the province to the township at the mouth of the river in the [illegible] that was a good Indian name of the stream. He had the power to name the township; but of course had none to change the name of the river.

The river for a couple of miles just above its mouth is a mile and a half wide and runs towards the southeast; above that it is much narrower and with the same general course is very crooked. The wide part is nearly closed at the mouth by a long dry sand bar running northeast and southwest, the general course of the St. Lawrence; and the eastern part of the basin so formed is very shallow, indeed mud at it is bare at low tide. The entrance to the basin from the sea (or rather the St. Lawrence, which is here ~~about~~ seventy miles wide) is at the southern corner, by a narrow channel which has [illegible] feet of water at low tide, and the tide here rises ten or twelve feet.

Near the end of the bar on the right going into the basin or harbor is the wharf of the iron works. On the opposite side of the entrance and close by on the same side are two other wharves for fishing vessels. A railroad runs from the wharf a mile and a third along the [illegible] to the iron works at the eastern corner of the basin. At the works are: a stockhouse; a large building for the washing machines, forge fires, hammers, steam engines, boilers, blowing machinery and machine shop; [illegible] charcoal kilns of brick; a charcoal shed; a lime kiln and lime house; a stable and barn; and a brickyard; all clustered together in

The Alfredic Fine Works.

An Account based on impressions taken on the spot in October, 1899, by Augustinian Friars Colyseum.

The Alfredic Fine Works at Alfredic is interesting from the fact that it contains the largest works on this Continent that have been built for use on the manufacture of fine general of the sea board.

The works are in the vicinity of the Alfredic Mines on the north shore of the Alfredic Harbour near the Alfredic Mines, whose accessibility makes it particularly favorable and profitable for them, and are distant about 30 miles from Alfredic, about 60 miles from the Alfredic Mines (as seen on the Alfredic map) and in the Alfredic Harbour (as seen on the Alfredic map) are connected by the Alfredic Harbour Railway.

The Alfredic, and the name of Alfredic was given by the Alfredic Investors, the Alfredic Mines of Alfredic have given a good Alfredic revenue of the Alfredic. It has the Alfredic Harbour Railway; but of course has been a drawback to the Alfredic Mines.

The mines have a capacity of Alfredic, that when the Alfredic is a mile and a half north and through the Alfredic; where the Alfredic is Alfredic and in the Alfredic General Alfredic is very extensive. The mill part is nearly finished and the Alfredic by a long long road has been running Alfredic and Alfredic the General Alfredic of the Alfredic; and the Alfredic Alfredic of Alfredic is very Alfredic, Alfredic and Alfredic is here at Alfredic. The Alfredic and the Alfredic Alfredic (or rather the Alfredic, which is here Alfredic Alfredic with Alfredic) is at the Alfredic Alfredic, by a Alfredic Alfredic which has Alfredic and Alfredic, and the Alfredic have been a Alfredic.

When it and the Alfredic on the Alfredic Alfredic and the Alfredic Alfredic is the Alfredic Alfredic works. On the Alfredic side of the Alfredic and Alfredic by Alfredic Alfredic and the Alfredic Alfredic for Alfredic Alfredic Alfredic have been the Alfredic Alfredic Alfredic the Alfredic a Alfredic and a Alfredic Alfredic the Alfredic. After Alfredic a Alfredic a large building for the Alfredic machinery, large Alfredic Alfredic Alfredic, Alfredic, Alfredic machinery and Alfredic Alfredic Alfredic of Alfredic; a Alfredic Alfredic; a Alfredic Alfredic and Alfredic; a Alfredic and Alfredic; and a Alfredic; all Alfredic Alfredic;

near to each other. The village of a dozen houses where the workmen dwell is about a quarter of a mile from the forge building, on the northeast shore of the basin.

There is a landing for wood close by the forge and charcoal kilns. The wood is brought down in summer from some four miles up the Moisy on large scows, fifty or sixty cords to the load. The scows are towed by a small steamboat that draws only three feet of water. In winter the wood is cut nearer to the forge (about two miles now) and hauled to it on the snow, and the wood near the forge is spared in summer for this purpose. It is almost all soft wood, resinous, but for the birch and the trees are mostly rather small. The chopping is paid for at the rate of fifty cents (specie of course) a cord, and the wood is reckoned worth at the kilns eighty cents a cord. The wood cut up the river belongs properly to the government, but the privilege of cutting it has been granted for the royalty of six cents a cord, which however, has never yet been exacted.

There are ten charcoal kilns in a row beginning about a hundred yards from the wood landing place; but two of them are unfinished. The eight finished ones are in the shape of a cylinder at bottom, with a dome shaped top. They are about thirty feet in diameter and twenty five feet high; have walls a foot thick; are built each of forty thousand bricks; and will hold a hundred cords of wood a piece, which yields four thousand bushels of charcoal. The two unfinished kilns are to have iron roofs much flatter than the brick domes. Holes are left in the side walls that may be closed with a single brick endwise, to regulate the burning. The charging and emptying are done partly by a round hole at the top below a high wooden platform and partly by a door at the bottom. The burning lasts twenty five or thirty days, say, with the charging and discharging, one month for a burning, or twelve burnings a year with each kiln. The ten kilns would yield, then, about forty thousand bushels a month, or a little more than is needed by four forge fires. The charcoal is of very fine quality, much of it very beautiful, enough to make the eyes of a blacksmith glisten. The ten kilns need eight men to load and unload them, two men to watch and a foreman, who oversees other matters too. The charcoal is reckoned to cost in all four cents and a half a bushel. Last year there were only six kilns and some pit charcoal was used.

been a lovely effect. The building of a large house where the workmen should be authors generally of a small from the large building, as the overflowed above of the [illegible].

There is a [illegible] for several days in the large and [illegible] [illegible]. The wood is strongly [illegible] as [illegible] [illegible] [illegible]

The ore is gathered on the beach within, say, half a mile of the works on either side. The shore is a sand beach for fifteen miles above Mr Isle and for ten miles below, and the land rises from the beach in three or four flat sandy terraces to a height of some fifty feet and then stretches back almost level some ten miles to the Laurentian Mountains. Just above the beach the waves of great storms have cut the bank of half a dozen feet in height into low sand cliffs, in which are seen layers of blue black magnetic iron sand, from a mere film in thickness up to three inches or more. These layers are sometimes separated from each other by very thin films of lighter colored sand, sometimes by a few inches, with the greatest irregularity. It is said that the average of these sands, found by digging long trenches as through them, contains fifteen per cent. of magnetic iron ore. In great gales the sea washes these sands and afterwards (as on the morning of the fifth of October, 1869) there are on the beach great patches of nearly pure ore, as pure as it could be washed by man. These patches are of irregular shape and size, perhaps one hundred yards long and half as wide, and at short distances apart all along the beach. They are of all thicknesses up to some three inches, and when you dig through the layer of light colored sand below them, a few inches thick, you find strata of ore below. In fact there is the same irregularity in the composition of the beach as in the sand bank above. After every gale there are fresh patches of ore on the beach, and the supply seems inexhaustible. A single patch a hundred yards long by fifty wide and averaging two inches thick should yield almost seven tons of ore. The ore is gathered at favorable times after the storms and piled up in heaps on the bank out of the reach of the waves. The experiment has been successfully tried of keeping up the poor sand below high water mark and letting a common tide wash it. The first year the ore was noticed its amount was immense, much greater than has ever since been seen on the beach at any one time. It is said that the sand has been found to have an average of a dollar's worth gold in it to the ton.

In taking the ore of course some impurities are dug up also, so that it has to be washed before smelting. The unwashed ore has but per cent. of pure ore; the washed about per cent. The most troublesome impurity to remove is

gem et sand, which is common here and is heavier than the other sand mixed with the ore. The washing is done on a shaking table about twenty feet long and four feet wide carried by four pairs of flanged wheels upon upon four rails crosswise of the table, and moved sideways some eleven inches back and forth by two rods joined to small cranks on a small bit of shafting. The table slopes gently towards the tailing end, and the bottom is about an inch and a half lower in the middle than at the sides. There are sides about six inches high, but the lower end is open. A workman with a wooden hoe pushes the sand up and down on the table as it shakes, until the impurities are washed away. The washing is not done at night; and one table supplies four forge fires for twenty four hours, that is, say, tons of iron, for working too long, and needs two men besides a boy to shell in the ore. There are two such tables in the building adjoining the one where the forge fires are, and there is a fifteen horse power steam engine to run them. Near the washing machines is a water wheel some eighteen feet in diameter by two or three feet wide; and a wooden aqueduct some two feet and by [illegible] feet deep, on trestles, brings water to it from a stream [illegible] off. The wheel was put up to run the washing machines but the water failed in a dry season, and the small steam engine was put up to take its place, and the wheel is idle. This last year, however, the water has been quite plenty enough. — The wash ore is fed in a wheel barrow and thrown into a heap between each pair of [illegible]

There are eight forge fires in place all alike; but two are unfinished and only four are in use now. They have a cast iron frame, and are three feet square and high, closed by a plate in front for a foot from the bottom, with holes in the plate for the escape of the slag, and with a shelf or hearth at the top of the plate, flush on a level with the tuyere. The tuyere is at the side of the fire, has a nearly semicircular section with a radius of an inch, and is inclined at an angle of about fifteen degrees. The blast is heated in passing through two long pipes like inverted U's set side by side in a chimney over the fire. These pipes are about eight inches in diameter and rise about eight feet above the fire place. The heat of the blast is not known exactly, but the pipes are

5

and to be red hot. The air is brought to the forge fires by a large pipe a foot and a half in diameter from a pair of blowing cylinders in the next room. Each cylinder is about seven feet long and four feet in diameter, is double acting, and gives about two double strokes and a half every minute. The pressure of the blast is about one pound to the square inch. The blowing cylinders are run by a steam engine of about thirty five horse power.

The forge process is the same as that in use about Ogdensburgh, the region from which the master bloomers of Moisic came. The ore is all thrown on the fire in small quantities from time to time according to the judgement of the bloomer, until at the end of three hours he has gathered together a loop of about two hundred pounds and some eighteen inches across and six inches thick. The loop is then taken by the hammer and hammered first into a shape about six inches square and two feet long, while the slag runs out like juice from crushed grapes ~~[illegible]~~. It is then hammered into a bloom about four inches square and three feet long with a round bunch about six inches thick left at one end. This bunch is put into the fire again to be reheated while the other loops are hammered, and after that is hammered out into a bloom about two inches square and three feet long, and is then cut off from the larger bloom. Both are called blooms, although the second, smaller one has been hammered more than the first and is almost as pure as bar iron.

There are two horizontal trip hammers, one of them dismounted at present, and each weighs six tons and a half. A sixty horse power steam engine for hammering stands in the same room with the blowing machinery. Adjoining this room is a small machine shop with a lathe.

A reverberatory furnace is already built in the room where the washing is done, near the forge fires, and will be used for reheating the loop for the second hammering instead of putting it back into the forge fire.

The forge runs night and day except Sundays; and the forge employed four bloomers and one manager in charge and one hammerman, six men in all, every shift of twelve hours.

The blooms are paid three dollars and fifty cents a ton of iron, except two of them brought from Ogdensburgh & each the others are paid three dollars a day. The hammer men are paid a dollar and a half a day. Just now, besides the two master hammer men, two new men are learning to hammer and are paid, one a dollar a day, and the other twenty five cents. The four fires make each eight loops in twenty four hours, or all together about three tons of blooms a day. They began making iron near the end of October, 1857, and have made now some 1500 or 1800 tons, almost all of which is still on hand. At first only two fires were used; but last year for about six weeks six fires were in blast, the rest of the time only four.

The four fires need 1400 bushels of charcoal a day on the average, or 36400 bushels a month. A greater bulk of charcoal is needed than if it were heavier, that is made from hard wood; but the lightness of the charcoal is thought a better quality to the iron. The charcoal is paid to weigh [illegible] pounds to the bushel.

Near the charcoal kilns is a lime kiln. The limestone is brought from Seven Islands, about twenty miles off, and the lime is used for making mortar.

Bricks are made in a brick yard close by the forge, and good material for them is found there in some layers of clay among the sands.

A very fine eighty ton iron screw steamer belongs to the establishment, and plies constantly between it and Montreal throughout the season of navigation.

The land belonging to the iron works is about five square miles, of which about two is a peat bog. All for the hold for geographs is, therefore, kept at some distance from the forge and nothing stronger than spruce beer or tea is drunk there.

There are now in all eighty five men and twenty [illegible] and twenty two horses employed by the concern. Last winter there were 250 men employed; about a hundred of them chopping wood back to the Great Lake of the St. Lawrence

for the summer. Nearly all the workmen come from there, and either cross in skowers, or, when a large number is wanted at once, as for wood chopping at the beginning of winter, the steamer calls for them at some port agreed upon beforehand. In any case they pay their passage across.

The wages of common labourers vary from sixteen to twenty dollars a month, mostly about eighteen dollars, and they find their own board, which is eight or nine dollars (say eight and a half) a month. House rent is given free to those who take lumber. Better workmen get from twenty to twenty-five dollars a month. The wood choppers are thought to be best paid, at fifty cents a cord; for they can cut two cords a day, rarely three.

The supply of wood may be considered almost inexhaustible by any ordinary iron works; for the Moisie River comes down perhaps a hundred and fifty miles, wooded in most places along its banks and for some distance back. Although there are falls in its course, the wood could be floated down and caught by a boom below. The region through which the river runs is not only perfectly wild now, but cannot always be so in great part, as it is rocky and mountainous.

[illegible] of the climate.

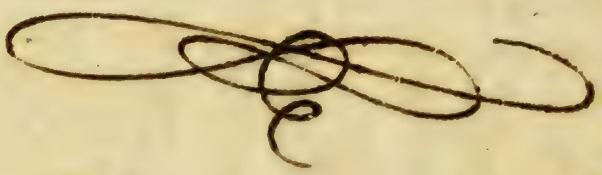
Climate at Moisie on the shore of so large a body of water as the lower St. Lawrence is in the early winter milder than the climate of Montreal much further south. But the great body of drift ice that stays in the river and gulf until May makes the spring very backward. The summer is short, but plants grow fast in it and ripen quickly, so that fine potatoes, as well as oats and barley ripen well and the soil though sandy is not unfavorable. Snow does not come in any quantity until December or even Christmas, but the ice does not go until May.

There is, then, no navigation for five or six months in the year. The mail is carried on foot once a month through the winter about two hundred miles to Bersimis, the nearest post office on the north shore. The trip is made by the mail carrier in six days commonly in nine days, but sometimes in seven. The

is paid eighty dollars per the round trip, mostly by the iron works, but the workmen pay twenty five cents for each letter they send.

The white population of this north shore is very thinly scattered, and almost wholly of French descent, and fishermen and hunters by occupation. There are scarcely a dozen houses within fifty miles of Alloisie, up and down the shore, and these are none inhabited.

There are a few Indians of the tribe called Montagnais that frequent this region; but through all the year except a short visit in the summer they are back in the mountains hunting. They sell their furs to the agents of the Hudson's Bay Company, which has a monopoly of all trade with them. Now and then one or two of the Mic Mac tribe of Indians come down from the north a couple of hundred miles, perhaps as guides to some French missionary. The Lake Indians paid a visit to Alloisie last year a horse for the first time in their lives. They thought him some terrible wild beast and [illegible] off to inform their tribe. Away from Alloisie horses are especially rare on this coast, and in the winter dogs are used to draw sledges. There are no roads except along the shore and a few rough foot paths or carries (portages) inland for travellers. The rivers are indeed the great highways, for the woods are thick and hard to pass through, and the rivers head up so near each other that it is possible to go almost any where in a canoe with short carries.



On examination of the inventory of the Union Car and Manufacturing Company, 9 Sept. 1869, found:

Borrowed:

1 Pick and 1 new Shovel, by Mr. G. F. Power.

4 Three foot wooden flasks, by Chambers.
2 Iron flasks, by Connard & Murray. } [Returned, 8 Nov. 1869.]

1750 lbs. Railroad iron, light pattern, by Allison Co.

Sold:

7,014 lbs. New wrought iron

12,924 { 18,200 lbs. { Cast iron / Cast scrap
4,782 lbs. Pig iron

30 lbs. wrought scrap.

Whole stock of housework and other patterns.

Missing:

17 Railroad ties 35¢ — Sundry pieces old lumber 10¢

Pieces of timber on floor of smith's shop 2¢

Steel, new 4 2 lbs @ 2¢ 5¢ — 2 gross machine screws @ 75¢ 1.50

4 Pair Callipers — 1 Axe handle 12¢ — 1 Auger — 1 hammer

1½ gallons lard oil — 1 Pair pinchers — 1 Pair callipers 75¢

Office Railing wood 15¢ — 10 ft. of 4 in. Belt @ 37¢ 3.70 — Hammer

One 6 in, 8 in ½ Bend Pipe patterns, core boxes, also core boxes of

One 4 in, 12 in do. do. do.

1 Spring bolt 50¢ — 3 lb. Brass wire, about $18.

On possession with necessary of the Lunar Cor and
Lunar Distance Observer, Sept. 1769, Annual:

Observers:

Field and Lunar Observed by Mr. E. Fisher.

4 Lower Limb Moon Observed by Clausen.
2 Lower Limbs the Converted Mr Murray.
Moon's Reckoned Lower Limb Pattern, by Mr Mills 16.

Clock

Mr Mr. Mean Average Error

Clock Error
Clock Error
Clock Error
Clock Error

Average

Mr Mr Mean Average.

Mr Mr Mean of Measured and Mr Pattern.

Mr Mr

Mr Mr Mean 37° — Mr Mr Mean Pattern Mr Mr 10°
Mr Mr Mean Pattern Mr Mr Mean 37°
Mr Mr Mean Mr Mr 37° — Mr Mr Mean Mr Mr 37°
Mr Mr Mean Mr Mr — Mr Mr Mean Mr Mr — Mr Mr
Mr Mr Mean Mr Mr — Mr Mr Mean — Mr Mr Mean 37°
Mr Mr Mean Mr Mr 37° — Mr Mr Mean Mr Mr 37° — Mr Mr
Mr Mr Mean — Mr Mr Pattern Mr Mr Mean, Mr Mr Mean Mr Mr
Mr Mr Mean, Mr Mr. Mr. Mr.

Mr Mr Mr 37° — Mr Mr Mean Mr Mr 1769.

[illegible] South Fifth Street, Philadelphia 12 Nov. 1847.

C. C. Foulke Esq.
New York.

My dear Sir:

Your favor of day before yesterday came duly to hand. You will find [illegible] as well as I can at this [illegible] [illegible] [illegible]

15th Mo. 15th Street Philadelphia, 3rd Mo. 8th 1844.

P. C. Gordon Esq.
New York.

Dear Sir:

Your favor of yesterday is at hand.

I have seen Mr. Ely this morning, and he says he will take of the stock if the guaranty can be obtained. The affairs have been well managed, and he thinks it is. Do you think you can obtain the guaranty in time, and that the two proceedings of April 20th & 27th of January and April and not that of Mr. Power's will be taken upon the books the Company at one of the meetings had been fixed twice by overnight.

I think since the call of the inventory as well as mine yesterday & as I understand the meeting begins at twelve.

Very truly yours.

Benj. Smith Lyons.

[illegible] Philadelphia, [illegible] 1849.

C. C. Conrad Esq.

[illegible]

My dear Sir:

[illegible] bag is at hand. It must be that mine [illegible] inclosing the [illegible] was inclosed you; for in it I answered the [illegible] about the ground rent Spring. It amounts to [illegible] $3.[illegible], and I also paid 25¢ for getting the new [illegible] the Corporation, making in all $53.55. The balance [illegible] the [illegible] amount, namely, $56.55 I returned [illegible] in Louisville. — Hope the inventory is [illegible] [illegible] make another [illegible] from [illegible] [illegible] were added by me at [illegible] [illegible]

I find [illegible] the affairs of the business and [illegible] [illegible] and on the [illegible] removal [illegible] to be [illegible] of carting, [illegible] [illegible] bought the [illegible] for [illegible] dollars, which [illegible] [illegible] $[illegible]. The lumber was old stuff [illegible] in piles [illegible] the ground and was [illegible] [illegible] the [illegible] and [illegible] in the inventory, [illegible] [illegible] [illegible] will [illegible] [illegible] Albion [illegible] [illegible] Sept. [illegible] 2183 lbs [illegible] Joseph Bates, the boy at the [illegible] [illegible] me that on the [illegible] the last entry on the [illegible] book [illegible] [illegible] against Mr. Brewer of $1.35, and [illegible] of nothing since that [illegible] [illegible] [illegible]

1528 South Fifth Street, Philadelphia, 15 Nov. 1879.

Benjamin Lyman Esq.,
Montreal.

My dear Sir:

Your favor of the eleventh is at hand today with the enclosed rollinds of eight dollars and the receipted bill. I am very much obliged indeed for all the trouble you have taken in the matter. As to the amount of the balance I am only afraid it should have been half a dollar less; for you do not seem quite certain of the amount you state from memory and for my part I made no note of it and do not clearly remember whether it was $57 or $57.50. But I trust it is all right, or if not that I may be able to make it so.

I called to see you the day you left here and found you had seen your husband home. I feared that your daughter might still be sick, but am glad to hear that you all arrived safely in Montreal. You have certainly left some of our fine sights here still to see on another visit, and I trust that you may all come again soon to see them. The city is not with its sights for a city of its size, but is remarkable for the contrast with which poor people live here. There is an average of one house to about 6½ inhabitants, and though many of the houses are very small, almost every family has its own house and yard and both comparatively cheap. Rents and taxes are the only things approaching to cheap in almost every direction. And it is, I think, not that our streets or quarters are greatly better than many others. Food is cheap and good because the country around the city is so prime a farming region. You went near to some of the finest Atlantic County farms in going towards Hammonton; if not you should have gone still further that way.

I start early tomorrow morning for Northampton to spend Thanksgiving there like a dutiful Yankee. It is a week earlier than common this year, but the season seems quite as favorable as usual all the way up to Thanksgiving week. It seems pretty likely that you should be anything already in Montreal.

My thanks to you or your son also for forwarding me a newspaper last January but one. Please give my best regards to him and to your wife and daughter, and believe me always

Very truly yours. Benj. Smith Lyman.

135 S. 4th St., Philadelphia, 27 Nov. 1869.

[illegible]

My dear [illegible]:

[illegible] the enclosed letter written [illegible] back. [illegible] just as I was [illegible] [illegible] [illegible]

135 Pearl St. Cor. Pine, Philadelphia, 23 [illegible]

Edward R. Rose, San Francisco.

My dear Sir:

[illegible] your favor of the [illegible] first [illegible] I have [illegible] [illegible] [illegible]

Since last wrote you I have made a journey, but never
[illegible] some four hundred miles north east of Quebec, on the
North Shore, what used to be called the Labrador Coast, but now it
[illegible] Among other places I went to was
Moisie where [illegible] on sand from the
beach. If you see the Northern Engineering and Mining Journal
the old Journal of Mining, [illegible], you may find in it an
account of the Moisie Iron works. [illegible]
[illegible] three miles about [illegible] in
that neighbourhood. [illegible] very interesting [illegible]
[illegible] accounts. [illegible]
[illegible] Post the geology, the scenery
and [illegible] all new to me and very interesting.
I [illegible] Lower Canada not even at Montreal
and [illegible] from home five weeks; and had
been [illegible] weeks, when I went [illegible]
[illegible] a few days at Thanksgiving. All my [illegible]
[illegible] were gathered [illegible] and all in good
health [illegible]. In my [illegible] I [illegible]
[illegible] Winnipeg and arrived safely yesterday.
[illegible] yesterday morning [illegible]
[illegible] Mechanics [illegible] Cambridge and
[illegible] the James River, and [illegible]
[illegible] Tuesday morning [illegible]. We [illegible] the [illegible]
[illegible] by students. [illegible]
[illegible] comfort [illegible] Chester Street, [illegible]
[illegible] Road. Mining Engineer, [illegible]
Yours Benjamin [illegible]

135 South Fifth Street, Philadelphia, 27 Nov. 1869.

Prof. Joseph Henry,
Washington.

My dear Sir:

I have to thank you very much indeed for the kindness of your letter yesterday introducing me to Mr. Thornton. It seemed with its accompanying letters to have great weight with him; but he was unwilling to decide the matter for two or three days yet, so that he might hear further from somebody else who had been recommended to him for the place in question. Still, I have come home so strong in the belief that in spite of my shortcomings he will find no available man better fitted on the whole than myself for his purpose, that I am going to carry out his suggestion of going right away to the oil regions, so as to perfect myself in some of the details where my experience has left me a little deficient. I have hopes of accomplishing this satisfactorily within a very few days, after what I have had to do already in the way of boring; perhaps as soon as would be ready to write me at any rate.

Thanking you again most heartily for your kindness, I remain

Very respectfully yours. Benj. Smith Lyman.

1534 Spring Street Philadelphia, 27th Nov. 1889.

Prof. Joseph Henry, Washington D.C.

My dear Sir:

I have received your very recent kindness for the business of your letter yesterday notwithstanding our [illegible]. It seemed with its accompanying [illegible] [illegible] with him; but he was unwilling [illegible] for two or three days yet, as [illegible] he would have yet to consult other [illegible] [illegible] [illegible] in the place in question. [illegible] [illegible] [illegible] in [illegible] that [illegible] [illegible] [illegible]

135 South Fifth Street, Philadelphia; 27 Nov. 1859.

His Excellency Edward Thornton
British Ambassador &c. &c.
Washington.

Sir:

It seems to me since leaving you that with the experience I have already had in boring wells it will be possible for me to get a satisfactory knowledge of the most important details that I have in even less time than I mentioned to you, say in three or four days. The advantage of staying longer in the oil region would not perhaps be worth the delay under the circumstances, since it is not likely that the work in India would be helped forward much thereby. [illegible] only shortening your will hardly be able to find any other available man as well fitted on the whole for the business in question; and I shall, therefore, as you suggested, go at once to the oil regions, and will await your pleasure there. If you will have the goodness to address me in care of Prof. J. C. Lacey, Secy. of the American Philosophical Society, [illegible] India, he will not only forward your letter to me, but will telegraph me at the same time, so as to hasten matters.

It seems to me really worth while to take boring tools from here to India, for the Government has no doubt special facilities for getting work done promptly in the machine shops there, and the expense would also be less.

I have the honor to be

Your Excellency's
Most obedient servant

Benj. Smith Lyman.

284

[illegible] Street, Philadelphia, 27th Nov. 1864.

Alex. Cassidy, Edward Morris.

British Consulate &c. &c.

Liverpool.

Sir,

We have your letter leaving you that with the exploiters [illegible] and in having [illegible] it will be provided for in a proper distinctly [illegible] of the most important [illegible] that [illegible] in order to give the [illegible] of your, any in this [illegible] of your [illegible]. The [illegible] [illegible] in the [illegible] [illegible] [illegible]

35 South Fifth Street, Philadelphia, 27 Nov. 39.

My dear [illegible]

After having gone a week ago [illegible] hoping [illegible] by [illegible] Springfield [illegible] Philadelphia. [illegible] Springfield [illegible] I [illegible] [illegible] Springfield [illegible] [illegible] [illegible]

It seems to me I remember hearing that I had been highly recommended to him, although I forgot if this man could go or would be willing to go. And the question is, shall I wait for the matter to be decided for two or three days longer, or shall I go at once to the oil regions on the chance of my being chosen for the mission? And he seemed to think it probable that he should choose me after all. The engagement would be for one year with the option of keeping me two years, if they wished to do so. The salary would be fifteen hundred dollars a year. The oil regions are pretty widely scattered in India, in Burmah, Siam, the Punjab, and perhaps elsewhere. I shall be glad to hear from you. It is very uncertain of my prospects, but I am in the hands of God, and I feel that I can safely leave the matter with Him. I shall be very glad to see you before I go, if you can spare the time. I am very busy now, but I shall be at home all day tomorrow, and I shall be very glad to see you. I shall be very glad to see you. I shall be very glad to see you.

[illegible] Philadelphia; Dec. [illegible]

[illegible]
British Minister [illegible]
Lisbon.

My Lord,

[illegible] is at hand; and [illegible] in Washington [illegible]

I remain
[illegible]
Your Excellency's
Most Obedient servant.
[illegible]

[illegible] Philadelphia; 6 Dec. 1869.

Dear Father:

[illegible] kind & were after Christmas with its enclosed check for a [illegible] yesterday morning from the [illegible] I am very much obliged to you.

Nothing [illegible] from the British Minister saying that [illegible] to Washington and sign the contract, and [illegible] as soon as possible for India. I am going therefore [illegible] Saturday & should probably be here again in [illegible] night. I have not yet decided at what time I can sail, but as they are very in [illegible] the earliest possible moment [illegible] available time for work there and it will [illegible] for the journey. I think I will sail either [illegible] or on Wednesday of [illegible] the Cunard line, also a fortnightly steamer. [illegible] Mediterranean, [illegible] the time [illegible] Therefore in the two weeks [illegible] Marseilles) of nearly I can easily get ready to go by Saturday, leaving only [illegible] I am going to keep [illegible] matters besides. [illegible] could not go to Mont [illegible] been one solitary [illegible] especially as the visit [illegible] perhaps only for [illegible] night. [illegible] I see you [illegible] Indian officer [illegible] directly. Only [illegible] and help [illegible] the country on the [illegible] a wonderful [illegible] any way to let the [illegible] Indian job. [illegible] as it [illegible] have been [illegible] the [illegible]

I will have it worked up next Thursday or Friday after I get back from Washington, and they will find it to be three men at it, so that it can be properly done. With this model done I can, I think, get a patent in a few weeks by correspondence as nothing more will be needed but a drawing and a description in writing, all of which I could send by mail from Washington. Should any help me a little in my business I feel sure I have such this instrument made and in use a year or two already, so as to begin to be a little known.

In my pay while gone I think there is no reason the money, for any expense with the British Exhibition government, and the management are the nearly according to agreement. In fact the certainty of the pay is one of the attractions of the job. It will no doubt furnish me with sometimes obtained the only travelling expenses in the matter of the journal and I am overcoming for that I do not care. To be safe, however, I should be very much obliged if you would send me the fifty dollars that I spoke of and that you promised so kindly; although I have hopes of getting along without using it.

My trip to the oil regions was quite satisfactory and in many respects very agreeable, but in others somewhat unsatisfactory. The weather held stormy every day, moreover, the roads almost inconceivably muddy a good deal of the time, the hotels crowded so that I slept one night in a dormitory room with three other gentlemen in the same bed with me. You see I was in two places. Here there is even now as much excitement as there was in 86 in the places that were famous then. We at the Eastern are inclined that the oil excitement is all gone and that little boring is done; but they say and I see that at least five times as many wells are boring now as five years ago, and oil, oil, oil is the all absorbing thing there. The yield of oil is as great now as ever or greater, but the wells are much smaller in the average amount of daily yield; so there must be many more than formerly. I fell in with very nice good natured people, and saw an unusual number of interesting faces.

In [illegible] worth while writing before I neglected to ask you especially to [illegible] to very much [illegible] for the nice [illegible] me. You [illegible] just [illegible] they may wardrobe locked; but that [illegible] will not feel [illegible] leave me in handkerchiefs all the time.

Have [illegible] all. Yours affectionately Dear. Benj. Smith Lyman.

[For the United States Rail Road and Mining Register.]

Most men are under the impression that the oil fever has died away entirely and that little or nothing is done in the way of oil boring compared with what was doing five years ago. But the visitor to the Venango Oil Region is surprised to be positively assured by well informed men there that there are at least five (if not ten) wells boring now for one that was boring then. It is clear, too, that the number of producing wells now must be far greater than they were then; for the average yield per well now is much less than it used to be, and yet the daily yield of the whole region is some 12000 barrels. Five years ago a two hundred barrel well was thought a small affair; now it is the wonder of the whole region; and even the famous Red Hot Well (five miles south east of Titusville) is said to yield but 180 barrels a day.

There are just now two great centres of excitement in the oil region: Parker's Landing and Lawrenceburg, in the south; and Shamburg, in the north. Hundreds of wells are going down at each of these places.

Parker's Landing and Lawrenceburg, close by, are on the west side of the Allegheny River about forty miles below Franklin, fifteen above Brady's Bend, and three below the mouth of the Clarion. This new place answers exactly to the descriptions of Oil City and other centres of excitement as they were five years ago. The same swarms of men all bent upon oil business; the same turning of all talk upon oil and oil boring; the same overcrowded state of the hotels, even the same mud knee deep.

All the oil from the wells here is carried across the river to the railroad by one or two iron pipes; so that the yield of the producing wells about seventy five in number is well known to be 1100 or 1200 barrels a day, or an average of about fifteen barrels a day to each well. The greatest yield of any well is some sixty barrels a day; but, though the wells are not large, it is claimed that very few are wholly "dry". They are about eight hundred feet deep on the river flats; but a large share of them are bored on the sides and top of the bluffs, and are therefore one or two hundred feet deeper than that. The rock in which the oil is found is called by some the fourth or fifth sand rock; but others maintain with more apparent reason that it is the same

[Fertile Mustard Plant, Seed Bread and Thinning Vegetables.]

Mind these are matters of importance that the poor should know, and that little or nothing is done in the way of providing comfortable wholesome dining place works for the benefit of the labourer. The degree in which the physical health of the labourer is particularly concerned by well-ventilated rooms, that they are at least (if not) well drying when for one that burning fire. It is clear to, that the remedy of providing well cooked for our people, than they were then; for the average yield of well food is much less than it need be. And yet the thirty yields of the little degree is about 1000 pounds. Thirty years ago a six bushel acre well was thought a small yield; now it is the average yield of which degree; and even the farmers that have well (this much land evidently) is said to yield not 40 bushels a day.

The one point upon which great stress is placed is the cultivation of the soil: Fertilizers and manures are to be bought, and cultivation, in the north, then should provide for growing manure at least of their labour.

Probably ploughing and harrowing, either by, are in the most [illegible] villages, about eighty miles below Fredericton, [illegible] where Fredericton stand, and this below the mouth of the Tobique. [illegible] cultivation [illegible] of [illegible] land.

Other crops of substance in the north are [illegible]. The [illegible] all that [illegible] and [illegible] [illegible] [illegible]

the Sand Rock that has been so productive further north, on Oil Creek, at a depth of five or six hundred feet, and that it is merely deeper here from the Heath southerly dip. It is found seven hundred feet below the river at Scrubgrass (sixteen miles above Parker's) eight hundred feet at Parker's, and eleven hundred at Brady's Bend. At Brady's Bend there are two wells yielding together eight barrels a day, and two wells going down, one already 1050 feet deep and the other 850 feet deep; and these are the northernmost producing wells of the region.

In the northern part of the region, some six miles south east of ~~the~~ Petroville is Shamburg, close by Pleasantville; and here the excitement is perhaps even greater than at Parker's, since the best wells yield a much larger amount, even up to two hundred barrels a day or thereabouts. It is said that preparations have been made for sinking a great many wells here ~~shortly~~.

The methods used in boring are constantly changing, and are in some respects quite different now from what they were five years ago, although the same in the main. The derrick is taller and wider, as the wells are generally deeper, the tools larger and heavier. Wells are bored quicker now than then; instead of five or six months, a well is now bored nine hundred feet deep in forty five to eighty days. The crude oil is no longer shipped in barrels, but wholly in bulk, in large iron or wooden tanks on the rail road. The refined oil, however, goes in barrels.

The oil is generally found in a white coarse sandstone or rather pebble rock, but sometimes in a grayish rock. A grayish rock seems generally to have little oil, because what gives the gray color is a sand or clay that fills up the larger pores and leaves less room for the oil and makes the rock less pervious to it. Where such rock yields oil, it may be an accompanying cleft in it.

It is strongly maintained by some that the producing wells lie in belts that run northeast and southwest; for example, that the half dozen or more producing wells at Scrubgrass are in the same belt as Petroville, and that this belt is some two miles wide at Scrubgrass, although comparatively unproductive on it for a width of 400 or 500 feet. Others insist that even some of the long wells are [illegible] these belts.

[1358 [illegible] Pa.]

[illegible]

[illegible]

[illegible]

135 South Fifth Street, Philadelphia, 7 Dec. 1869.

My dear Sanborn:

I have been so constantly travelling since you were at Cleveland that I have neglected to write you. On arriving here after my charming visit at Springfield, I was told by Mr. Lesley that the British Minister at Washington had inquired of his friend Mr. Miller for some suitable man to go to India and survey the petroleum regions there and make borings after the fashion of our oil wells. Mr. Miller had applied to Mr. Lesley and Mr. Lesley recommended me so strongly that after my return Mr. Miller came to see me and recommended me to go to Washington to see Mr. Thornton and gave me a good letter to him. I went around also with letters from Mr. Lesley and Mr. Frazer to Prof. Henry, a particular friend of Mr. Thornton's, and Mr. Henry gave me a letter to him indicating how he had received. Mr. Thornton received quite well satisfied with those letters and with his interview with me but wished to leave the matter undecided a few days more and already began some negotiations with somebody else who had been very highly recommended but whose willingness to go was in doubt. In the meantime Mr. Thornton recommended me to do right away what I wished to do before going on such a mission to India, namely, to make a visit to our principal oil regions to pick up some of the smaller details of the method of boring there. So I set out for Venango County a week ago last Sunday night and after a satisfactory trip there got home again last Sunday morning. Yesterday, Monday, came a letter from the Minister stating that he would like to engage me for the work in question and to have me come on to sign the contract in Washington and to sail at the earliest moment possible. So I am going there this afternoon, and shall perhaps sail in the Pereire next Saturday, or else in the Cuba next Wednesday. My employer will be the British government for India, and the work will require travelling a good deal as the oil regions are widely scattered, in Burmah, Assam and the Punjab, if not elsewhere. The engagement is for one year, or two years, if they choose; but they think one year will be enough to finish the work. The winter is the only good time for the work, and that is why they are in such great impatience to have me start. For the engagement is not strictly for this month in reality but only for certain months — it is fair to make it from the time when I actually begin the work. [illegible]

137 North Tenth Street Philadelphia, Dec. 1844

My dear Mr Anderson:

I have been so constantly troubling since you were here that I fear I have neglected to write you. On receiving the enclosed with the following postscript, I was told by Mr. Lesley that Mr Walsh's business at Washington had interested of his friend Mr. Mills for more exactly than any other man in Philadelphia and Germantown. Impressed thus and under strong pledge to forward it well, Mr. Mills and a gentleman in Mr. Lesley recommended me to forward it that night by express. Mr Mills from Germantown also and recommended me also to stop at Lancaster Mr. Strobeck and leave it with him. Strobeck and I gave a good letter of introduction. Lesley also wrote letters from Mr. Lesley and Mr. Sergeant of Philadelphia, friends of Mr. Strobeck, and Mr. Young gave me a letter to Mr. Buchanan which I had received. Mr Strobeck recommended me to Mr Buchanan with the letter and left his introduction with me. But instead of leaving it Buchanan I thought it better to wait a little longer and see if Mr Strobeck would send a letter to Buchanan himself. Strobeck recommended me to do right away which I did. After long waiting for Strobeck's letter I thought it better to wait a little longer for your introduction. Mr. Strobeck recommended me to do right away which I did. After long waiting for your introduction Mr. Strobeck's letter I thought it better to wait a little longer for your introduction

135 South Fifth Street, Philadelphia:
9 Dec. 1869.

Edward Miller Esq.

My dear Sir:

I agreed yesterday with Mr Thornton to sail from New York day after tomorrow on my way to Calcutta. I write not only to say that I feel very greatly obliged by you for the pains you have taken in a matter that seems likely to prove of so much professional advantage to me; but to assure you that I should be most happy to take to you any letter or parcel that you would like to send. As I shall have to leave this city tomorrow evening and shall have to do a good deal of running around before that, I will say that I will be here from twelve to one, at least, tomorrow noon, in case you would like to have a personal interview with me.

I remain,

My dear Sir,

Very respectfully yours.

Benj. Smith Lyman.

137 South 4th Street, Philadelphia:
9 Dec. 1864.

Edward Little Esq.

My dear Sir:

I received yesterday with the Trustees' check, your kind letter of the 5th inst. in reply to my offer to contribute. I must not only assure that I feel very greatly obliged by the Trustees' kind wishes in a matter so interesting to me, & so much influenced by them; but express my hope that I should be unexceptionably & like them, one of your letter as proved that you would like to count, & I shall have to leave this self-interested business and shall have it be a great deal of pleasure to do so. I will say that I will be here from Friday next, & shall, therefore, in case you should like to have a personal interview with me.

I remain,

My dear Sir,

Very respectfully yours.

Henry Smith Ely.